

## A C K N O W L E D G E M E N T S

I express my deep sense of gratitude to **Prof. Dr. H. V. Kumbhojkar** for introducing me the theory of Fuzzy Sets and for his invaluable guidance and constant encouragement throughout the preparation of the work.

I must be grateful to **Dr. L. Radhakrishna** Professor and Head of Department of Mathematics, Shivaji University, Kolhapur, for availing all sorts of departmental and technical facilities.

I should express a few words of gratitude to the **Honorable Principal A. L. JADE**, Gogate-Jogalekar College, Ratnagiri. At the same time, I am very much thankful to **Prof. S. V. Kanitkar**, Vice-Principal and Head of Mathematics Department of Same College. He encouraged me throughout the preparation of this work.

I should not forget my colleagues and my family members who extended a hand of kind help during the period of preparation of this work.

I should specially mention over here the name of my best friend, **Shri. M. S. Bapat**, Lecturer, Willingdon College, Sangli, who from time to time, came to my help on discussing problematic points and he added to my knowledge by clearing the misty clouds about Fuzzy Mathematics.

I am extremely grateful to my research colleagues, **Shri. Jadhav A. L.**, Lecturer in Vivekanand College, Kolhapur, **Shri. D. B. Unde**, **Mr. Gramopadhye**, **Mr. Komejwar**, **Miss. Madhuri Bhonslay** who constantly encouraged me during my research work.

I am also thankful to **Mr. HARSHVARDHAN MORE** for his prompt and neat **Typing**.

**Mr. R. G. Sapre**