(AG510) Minor Irrigation and Command area Development L T P To C 3 1 - 4 4

Unit 1

Major, medium and minor irrigation projects – their comparative performance; development and utilization of water resources through different minor irrigation schemes.

Unit II

Basic concepts of command area – definition, need, scope, and development approaches: historical perspective, command area development authorities;

Unit III

Interaction/collaboration of irrigation water use efficiency and agricultural production. Planning and execution of on farm development activities with in the scope of command area development;

Unit IV

Use of remote sensing techniques for command area development; case studies of some selected commands;

Unit V

Farmer's participation in command area development. Case studies in related areas.

TEXT BOOKS:

- 1. Punmia, B.C and Pande, B.B. (1999). *Irrigation and Water Power Engg*. Standard Publishers and Distributors, New Delhi.
- 2. Hoffman, G.J., Howell, T.A and Soloman, K.N. (1990). *Management of Farm Irrigation System*. ASAE.
- 3. Michael, A. M. (1990). Irrigation Theory and Practice. Vani Educational Books
- 4. Modi, P. N. (1995). *Irrigation Water Resources and Water Power Engineering*. Std Book House, New Delhi.

REFERENCE BOOKS:

- 1. Murthy, C.S. (1990). *Design of Minor irrigation and canal structures*. Wiley eastern Limited, New Delhi.
- 2. Murthy, V.V.N. (1998). Land and Water Management. Kalyani Publishing, New Delhi
- 3. Proc. of seminar on water Management. (1992). Vol 1 & II. Water Management Forum, Gandhinagar.