DEPARTMENT OF EARTH SCIENCES

SEARVAC01 – Water Resource Management

Learning Objectives

To know and understand the importance of water Treat to water resources Management of water resources

Course Outcomes

- Students will gain knowledge over the water resources
- They know about different harvesting system.

Unit I

Introduction – Scope and advantages of Groundwater- Aquifer- Infiltration -Water table – forms of water

Unit II

Hydrologic cycle- sources of Groundwater- Origin and occurrence of groundwater. Water conservation

Unit III

Water harvesting - Rainwater harvesting - Groundwater harvestingmethods of harvesting-Rural and Urban. Drip irrigation. Water-wise habits

Unit IV

Water Quality – standards of water for different uses- Drinking purposes-Irrigation purposes- Industrial purposes

Unit V

Water Pollution- Introduction- Types of pollution- controlling methods

Books for study:

Arul.P (2000) A text book of Ground water, Dhanam Agency, Virudhachalam 2nd Ed.

Raghunath H.M (2015) Hydrology 3rd ed. New Age International publisher.

Todd, D.K. (1980).Groundwater Hydrology, John Wiley and Sons, 2nd Ed.