

## Activities and Achievements

### 1. Teaching Activities:

**Courses offered in Soil and Water Engineering Department in UG**

| Sr. No  | Course No.     | Course No                                     | Credits  | Lectures | Practicals |
|---|----------------|---|----------|----------|------------|
| 1.  | RE-102         | Surveying and Levelling                       | 3(1+2)   | 1        | 2          |
| 2.  | SWE-201        | Soil Mechanics                                | 3(2+1)   | 2        | 1          |
| 3.  | SWE - 203      | Fluid Mechanics                               | 3(2+1)   | 2        | 1          |
| 4.  | SWE - 205      | Watershed Hydrology                           | 3(2+1)   | 2        | 1          |
| 5.  | SWE - 202      | Soil and Water Conservation Engineering       | 3(2+1)   | 2        | 1          |
| 6.  | SWE - 204      | Irrigation Engineering                        | 4(3+1)   | 3        | 1          |
| 7.  | SWE - 301      | Ground Water, Wells and Pumps                 | 3(2+1)   | 2        | 1          |
| 8.  | SWE - 302      | Drainage Engineering                          | 2(1+1)   | 1        | 1          |
| 9.  | SWE - 304      | Soil and Water Conservation Structures        | 3(2+1)   | 2        | 1          |
| 10.   | AE – 401       | Project                                       | 6(0+6)   | 0        | 6          |
| 11.   | AE - 403       | Seminar                                       | 1(0+1)   | 0        | 0          |
| <b>Cafeteria courses</b>  |                |   |          |          |            |
| 12.   | SWE - 401      | Micro Irrigation System Design                | 3(2+1)   | 2        | 1          |
| 13.   | SWE - 403      | Watershed Planning and Management             | 3(2+1)   | 2        | 1          |
| 14.   | SWE - 405      | Minor Irrigation and Command area Development | 3(2+1)   | 2        | 1          |
| 15.   | SWE - 407      | Gully and Ravine Control Structures           | 3(2+1)   | 2        | 1          |
| 16.   | SWE - 409      | Remote Sensing & GIS Applications             | 3(2+1)   | 2        | 1          |
| 17.   | SWE - 413      | System Engineering                            | 3(3+0)   | 3        | 0          |
| 18.   | SWE - 411      | Reservoir and Farm Pond Design                | 3(2+1)   | 2        | 1          |
| <b>Student will undertake in-plant training of 25 credits hours which will include practical training at the Institution, training in one (4 months) / two (2 months each) Industrial Units and Educational tour.</b> |                |   |          |          |            |
| 19.   | AE (SWE) - 402 | In-Plant Training                             | 10(0+10) | 0        | 10         |

### **3. *Research Activities:***

#### **Ongoing Research Projects**

1. Estimation of wet and dry spells in Sagbara region using stochastic analysis of long-term weather data
2. Modeling yield and evapotranspiration (*Oryza sativa* L.) of rice as influenced by transplanting date and weather parameters

### **4. *Extension Activities:***

Information and demonstration of developed technologies under Department of Soil and Water Engineering were given in various exhibitions, Krishimahotsavs, kisan mela etc.