



## **1. TEACHING ACTIVITIES**

# A. Undergraduate level

Sr. No.	Course No.	Course title	Credit
1	Maths 1.1	Elementary Mathematics	
2	Ag. Met. 1.1	Introductory Agro meteorology & Climate Change	1+1
3	Ag. Engg. 2.1	Introductory Soil and Water Conservation Engineering	1+1
4	Ag. Engg. 3.2	Farm Machinery and Power	1+1
5	Ag. Engg. 4.3	Renewable Energy and Green Technology	
6	Ag. Engg. 5.4	Protected Cultivation and Secondary Agriculture	1+1
7	Ag. Engg. 7.5	RAWE Programme	0+2

### B. Master's level (Meteorology & Engineering)

Sr. No.	Course No.	Course title	Credit
1	AGM 501	Fundamentals Of Meteorology And Climatology	2+1
2	AGM 502	Fundamentals Of Agricultural Meteorology	2+1
3	AGM 503	Micrometeorology	2+1
4	AGM 504	Agro-Meteorological Measurements And Instrumentation	2+1
5	AGM 505	Soil Water Balance Climatology	2+1
6	AGM 506	Crop Weather Models	1+2
7	AGM 507	Weather modification and risk Management strategies	2+0
8	AGM 508	Principles of remote sensing and its Applications in agriculture	2+1
9	AGM 509	Applied Agricultural Climatology	2+1
10	SWE-501	Watershed Hydrology	2+1
11	PGS-506	Disaster Management	2+0
12	PGS-505	Agricultural research, Research Ethics and Rural Development Program.	2+0

### 2. RESEARCHACTIVITIES

#### A. Current Research Projects

Sr. No.	Title of Project	Principle Investigator	Budget Head					
Plan (	Plan (03)							
1	Research on Tillage Technology for crops of South Gujarat	Dr. Manjushree Singh	12936					
2	Establishment of Agro Metrological cell at agriculture college	Dr. P.K Parmar	12927					
Other agency (02)								
7	GKMS (Gramin Krishi Mausam Sewa)	Dr. P.K Parmar	18005-1					
8	FASL (Forecasting of Agricultural Output using Space Agrometeorology and Land based observations )	Dr. P.K Parmar	18993					

#### **3. EXTENSION ACTIVITIES**

- Need based training to the extension workers / officers of Department of Agriculture Gujarat State, Officers / Field Staff of Sugar Factories; and farmers bring by various NGOs to strengthen their knowledge about Agril. meteorology .
- Staff is actively participating in *KrishiMela, KrishiMahotsav, Khedut Din, KhedutShibir*, Seminar programme etc.
- Department is also imparting training to the students of various rural academic institutes.
- This department is also guiding farmers through various means of extension on the advanced technology like GIS and GPS as well as different farm equipments and their management.
- Department has well established laboratories for students, farmers, extension workers as well as scientists.
- Department has Remotesensing & GIS and Hydrological Modelling lab and research farm through which knowledge strengthening amongst students, farmers, extension personnel as well as scientists.