

### 1. TEACHING ACTIVITIES

#### A. Undergraduate level (Sixth dean)

Sr. No.	Course No.	Course title	Credit
1	SEC-1 Skill Enhancement Course	Biofertilizers and Biopesticides Production	0+2
2	Pl. Path. 2.1	Fundamentals of Plant Pathology	2+1
3	SEC-4 Skill Enhancement Course	Mushroom Production Technology	0+2
4	Nema. 3.1	Fundamentals of Nematology	1+1
5	Pl. Path. 5.2	Diseases of Field and Horticultural Crops and their management	2+1
6	Pl. Path. 6.3	Agricultural Microbiology and Phyto-remediation	1+1

#### A.1 Undergraduate level (Fifth dean)

Sr. No.	Course No.	Course title	Credit
1	Pl. Path.1.1	Fundamentals of Plant Pathology	2+1
2	Pl.Path.2.2	Introductory Nematology	1+1
3	Pl.Path .4.3	Principles of Integrated Disease Management	1+1
4	Pl.Path.5.4	Diseases of Field and Horticultural Crops and Their Management -I	2+1
5	Pl.Path.6.5	Diseases of Field and Horticultural Crops and Their Management-II	2+1
6	Pl. Path. 7.6	RAWE Programme	0+2
7	ELP 8.1	ELP –Bio-fertilizer production unit	0+10

#### B. Master's level

Sr. No.	Code	Course title	Credit
1	Pl. Path 501*	Mycology	2+1
2	Pl. Path 502*	Plant Virology	2+1
3	Pl. Path 503*	Plant Bacteriology	2+1
4	Pl. Path 504*	Plant Nematology	2+1
5	Pl. Path 505*	Principles of Plant Pathology	2+1

<b>Sr. No.</b>	<b>Code</b>	<b>Course title</b>	<b>Credit</b>
6	Pl. Path 506*	Techniques in detection and diagnosis of plant diseases	0+2
7	Pl. Path 507#	Principles of Plant disease management	2+1
8	Pl. Path 508	Epidemiology and forecasting of plant diseases	1+0
9	Pl. Path 509	Disease resistance in plants	2+0
10	Pl. Path 510	Ecology of soil-borne plant pathogens	1+1
11	Pl. Path 511	Chemicals and botanicals in plant disease management	2+1
12	Pl. Path 512	Detection and management of seed borne pathogens	2+1
13	Pl. Path 513	Biological control of plant diseases	1+1
14	Pl. Path 514#	Integrated disease management	2+1
15	Pl. Path 515#	Diseases of field and medicinal crops	2+1
16	Pl. Path 516	Diseases of fruits, plantation and ornamental crops	2+1
17	Pl. Path 517#	Diseases of vegetable and spices crops	2+1
18	Pl. Path 518	Post harvest diseases	2+1
19	Pl. Path 519	Plant quarantine and regulatory measures	1+0
20	Pl. Path 591	Master's Seminar	0+1
21	Pl. Path. 599	Master's Research	0+30

\*Compulsory for Master's Programme in plant pathology; # For minor Agril. Entomology

### C. Doctoral level

<b>Sr. No.</b>	<b>Code</b>	<b>Course title</b>	<b>Credit</b>
1	Pl. Path 601*	Advanced in Mycology	2+1
2	Pl. Path 602*	Advanced in virology	2+1
3	Pl. Path 603*	Advanced in plant pathogenic prokaryotes	2+1
4	Pl. Path 604*	Molecular basis of host-pathogen interaction	2+1
5	Pl. Path 605#	Principles and procedures of certification	1+0
6	Pl. Path 606#	Plant biosecurity and biosafety	2+0
7	Pl. Path 691	Doctoral seminar I	0+1
8	Pl. Path 692	Doctoral seminar II	0+1
9	Pl. Path 699	Doctoral research	0+75

\* Compulsory for Ph.D. Programme, # For minor Agril. Entomology

## 2. RESEARCH ACTIVITIES

### A. Current Research Projects

Sr. No.	Title of Project	Principle Investigator	Co-PI	Budget Head
<b>NON – PLAN</b>				
1	Research on fruit crops	Dr. D. H. Tandel	Dr. K. B. Rakholiya	5014-1
<b>PLAN</b>				
2	Centre of excellence on bioinoculants	Dr. Lalit Mahatma	Dr. Shivangi Kansara Dr. Gopal B. Chopada	12020
3	Research on eco-friendly biofertilizers	Dr. Lalit Mahatma	Dr. Mital I. Patel	12131
4	Revolving Fund (9510-N-52)	Dr. Lalit Mahatma Dr. K. B. Rakholiya	Dr. Priya John	9510-N-52
5	ELP Revolving Fund	Dr. Lalit Mahatma & Dr. K. B. Rakholiya	Mrs. Kotramma Addangadi & Dr.R. K. Kapadiya	9510-N-98

**Note: Professor & Head is Project In charge of all above mentioned project.**

## 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 plant diseases and their management.
- Staff is actively participating in *Krishi Mela*, *Krishi Mahotsav*, *Khedut Din*, *Khedut Shibir*, Seminar, Radio, Television 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 plant disease incidence and their management.
- Department has well established mushroom and plant pathology/ disease management museum for students, farmers, extension workers as well as scientists.
- Department has Biofertilizer production Unit and Bio-pesticide production Unit through which knowledge strengthening amongst students, farmers, extension personnel as well as scientists.