



ACTIVITIES
Department of Entomology
N. M. College of Agriculture
Navsari Agricultural University, Navsari (Gujarat)



1. TEACHING ACTIVITIES

A. Undergraduate level

As per 6th Deans Committee

Sr. No.	Course No.	Course title	Credit
1	ENT. 1.1	Fundamentals of Entomology	2+1
2	-	Pest management in crops and stored grains	2+1

As per 5th Deans Committee

Sr. No.	Course No.	Course title	Credit
1	Ag. Ento. 3.1	Fundamentals of Entomology	2+1
2	Ag. Ento. 4.2	Principles of Integrated Pest Management	1+1
3	Ag. Ento. 4.3	Management of Beneficial Insects	1+1
4	Ag. Ento. 5.4	Pests of Field Crops and Stored Grains and their Management	1+1
5	Ag. Ento. 6.5	Pests of Horticultural Crops and their Management	1+1
6	Ag. Ento. 7.4	RAWE Programme	0+2
7	ELP 8.7	Production Technology for Bio-agents	0+10

B. Master's level (As per BSMA)

Sr. No.	Course No.	Course Title	Credit
1	ENT 501*	Insect Morphology	3 (2+1)
2	ENT 502*	Insect Anatomy and Physiology	3 (2+1)
3	ENT 503*	Insect Taxonomy	3 (1+2)
4	ENT 504*	Insect Ecology	3 (2+1)
5	ENT 505*	Biological Control of Insect Pests and Weeds	3 (2+1)
6	ENT 506*	Toxicology of Insecticides	3 (2+1)
7	ENT 507	Host Plant Resistance	2 (1+1)
8	ENT 508*	Concepts of Integrated Pest Management	2 (2+0)
9	ENT 509*	Pests of Field Crops	3 (2+1)
10	ENT 510*	Pests of Horticultural and Plantation Crops	3 (2+1)

Sr. No.	Course No.	Course Title	Credit
11	ENT 511*	Post-Harvest Entomology	2 (1+1)
12	ENT 512	Insect Vectors of Plant Pathogens	2 (1+1)
13	ENT 513	Principles of Acarology	2 (1+1)
14	ENT 514	Vertebrate Pest Management	2 (1+1)
15	ENT 515	Techniques in Plant Protection	1 (0+1)
16	ENT 516	Apiculture	3 (2+1)
17	ENT 517	Sericulture	3 (2+1)
18	ENT 518	Lac Culture	3 (2+1)
19	ENT 519	Molecular Approaches in Entomology	3 (2+1)
20	ENT 520	Plant Quarantine, Biosafety and Biosecurity	2 (2+0)
21	ENT 521	Edible and Therapeutic Insects	2 (1+1)
22	ENT 522	Medical and Veterinary Entomology	2 (1+1)
23	ENT 523	Forest Entomology	2 (1+1)
24	ENT 591	Master's Seminar	1 (0+1)
25	ENT 599	Master's Research	30 (0+30)

C. Doctoral level (As per BSMA)

Sr. No.	Course No.	Course Title	Credit
1	ENT 601**	Insect Phylogeny and Systematics	3 (1+2)
2	ENT 602**	Insect Physiology and Nutrition	3 (2+1)
3	ENT 603**	Insect Ecology and Diversity	3 (2+1)
4	ENT 604	Insect Behavior	2 (1+1)
5	ENT 605**	Bio-Inputs for Pest Management	3 (2+1)
6	ENT 606 **	Insecticide Toxicology and Residues	3 (2+1)
7	ENT 607	Plant Resistance to Insects	2 (1+1)
8	ENT 608	Acarology	2 (1+1)
9	ENT 609	Molecular Entomology	2 (1+1)
10	ENT 610	Integrated Pest Management	2 (2+0)
11	ENT 691	Doctoral Seminar – I	1 (0+1)
12	ENT 692	Doctoral Seminar – II	1 (0+1)
13	ENT 699	Doctoral Research	75 (0+75)

2. RESEARCH ACTIVITIES

Current Research Projects running in the department

Sr. No.	Title of Project	Principle Investigator	Co-PI	Budget Head
ICAR (03)				
1	All India Network Project on Agricultural Acarology	Dr. Abhishek Shukla	-	2092
2	All India Coordinated Research Project on Honey bees & Pollinators	Dr. J. J. Pastagia	Dr. S. R. Patel	2083
3	Evaluating impact of Neonicotinoids on Pollinators	Dr. J. J. Pastagia	Dr. M. R. Siddhapara	2099
Plan (04)				
4	Research Studies on Mulberry Sericulture in South Gujarat	Dr. M. R. Siddhapara	-	12011
5	Strengthening Research in Biological control of Crop Pests.	Dr. M. R. Siddhapara	Dr. C. U Shinde	12947
6	Forecasting weather pests and diseases at Navsari	Dr. K. M. Patel	Dr. S. R. Patel & Dr. M. R. Siddhapara	12939
7	Area Wide Management of Fruit Fly through community approach using Nauroji Stonehouse Fruit Fly Trap in South Gujarat	Dr. S. R. Patel	Dr. K. M. Patel & Dr. C. U Shinde	12076
Other agency (04)				
8	Evaluation of bio-efficacy of Isocycloseram 20% WV SC against shoot borers in sugarcane	Dr. C. U. Shinde	Dr. M. R. Siddhapara Dr. R. C. Patel Dr. L. V. Ghetiya	18254
9	Evaluation of bio-efficacy of Chlorantraniliprole .9.3%. w/w Lambdacyhalothrin 4.6% w/w ZC (Ampligo 150 ZC) against Shoot borers in Sugarcane	Dr. C. U. Shinde	Dr. S. R. Patel Dr. G. B. Kalariya Dr. S. C. Mali Dr. L. V. Ghetiya	18255
10	Evaluation of bio-efficacy of Cyantraniliprole 20% + Lufenuron 20% w/v SC (400 SC) against Sugarcane borers (Foliar spray)	Dr. C. U. Shinde	Dr. K. M. Patel Dr. R. C. Patel Mr. H. K. Chaudhary	18280
11	Evaluation of Spidoxamat 36 G/L + Abamectin 18 G/L OD against whitefly, mites and thrips in Brinjal	Dr. S. R. Patel	Dr. C. U. Shinde Dr. J. V. Patel Dr. R. K. Kapadiya	18284

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 pest- 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 pest and disease incidence and their management.
- Department has well established insectorium for students, farmers, extension workers as well as scientists.
- Department has Sericulture Research Unit and Biological Control Unit through which knowledge strengthening amongst students, farmers, extension personnel as well as scientists.