



**Department of Entomology
N.M. College of Agriculture
Navsari Agricultural University
Eru Cross Road,
Navsari - 396 450 Gujarat (India)**



**Dr. G.G. Radadia
Professor and Head &
PI (Sugarcane Entomology)
AICRP on Sugarcane, IISR, Lucknow (U.P)**

**Phone: (02637)282771-75*1212
Email:headentonau@gmail.com
Mobile: 08128686708**

No. ACN/ENT/PGT/ Minutes 7th BoS PP/947-53/2017, Navsari Date: 01/02/2017

Through NAU website

To,

All the Members of Board of Studies (Plant Protection),
Navsari Agricultural University, Navsari.

**SUB: Minutes of the Seventh meeting of Board of Studies for Plant
Protection held on 24th January 2017**

Sir/Madam,

Please find enclosed herewith the minutes of the seventh meeting of Board of Studies for Plant Protection held on 24th January 2017 at P.G. Seminar Hall, N. M. College of Agriculture, N.A.U., Navsari.

Moreover, all the concerned members are requested to take necessary actions on the suggestions pertaining to the P.G. research work and send the action taken report to the undersigned. Thanking you in anticipation.

Encl: A/a

(G.G. Radadia)
Chairman and Professor and Head,
Department of Entomology,
N.M. College of Agriculture, NAU, Navsari

CFWRs to:

1. PS to the Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari for information please.
2. The Director of Research and Dean, PG Studies, Navsari Agricultural University, Navsari for information please.
3. The Registrar, Navsari Agricultural University, Navsari for information please.
4. The Principal & Dean, College of Agriculture, Navsari Agricultural University, Waghai for information please.
5. The Principal & Dean, ACHF, Navsari Agricultural University, Navsari for information please.
6. The Principal, NMCA(Navsari)/CAB (Bharuch) for information please.

Minutes of 7th Board of Studies for Plant Protection, NAU., Navsari
Date: 24.01.2017 [Tuesday] Venue: Seminar Hall, NMCA, NAU, Navsari

The meeting of 7th Board of Studies (Plant Protection) was held at seminar Hall, N.M. College of Agriculture, Navsari. First of all Dr. G.G. Radadia, chairman and Professor and Head, Department of Entomology welcomed the Hon'ble Vice Chancellor Dr. C.J. Dangaria; Registrar Dr. V.A. Solanki; Dean faculty of Agriculture Dr. Z.P. Patel; the Principal Dr. M.K. Arvadia; and Dr. K.G. Patel. Thereafter, Dr. Radadia presented the action taken report of 6th Board of studies for Plant Protection in the house. He discussed about various teaching, research and extension activities of the department. In the speech Hon'ble Vice Chancellor Dr. C. J. Dangaria, advised all the students to work hard to prepare for competitive examinations like JRF/NET as ICAR is keen interested to assess the progress of the universities on the basis of the number of students qualified in these competitive examinations. Further, P.G. student and guides must select the research aspects related to the farmer's needs and initiate some basic work. The Hon'ble VC sir advised to all the faculty members and PG student to visit websites of leading institutes of India and aboard.

Following points were unanimously resolved by the house:

- Mention GPS location of experiment in Thesis.
- Crop phonological data should be recorded during the survey and other experiments.
- If the pathogen/insect is unknown or unidentified up to species level at the time of synopsis presentation, it is resolved to write only tentative genus at the time of synopsis submission. It should be corrected in the final thesis submission. The necessary permission of the same from the Director of Research and Dean, PG studies should be taken before the submission of *Kachha* bound Thesis.
- All should adopt the standard abbreviation/ units in the synopsis as well as thesis.
- Delete banned or likely to ban pesticides from all technical programmes.
- Do not mention trade name in any technical programme.

A total twenty one Master research and twelve Doctoral research programmes were presented by P.G. Students from Agricultural/Horticultural Entomology and Plant Pathology disciplines and most of them were approved with rational inputs. The meeting was ended with the vote of thanks.



(G.G. Radadia)

Chairman and Professor and Head
Department of Entomology
N.M. College of Agriculture,
Navsari Agricultural University, Navsari

Technical session: I

Chairman: Dr. K.G. Patel

Co-Chairman: Dr. K.B. Rakholiya

Rapporteurs: Dr. L.V. Ghetiya and Dr. Lalit Mahatma

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.1	Ph.D. (Agril. Entomology)				
7.1.1	Mr. Sathish B N 1010116031	Dr. G.G. Radadia	Dr. V.A. Solanki	Studies on population dynamics and losses due to coconut eriophyid mite, <i>Aceria guerreronis</i> Keifer and biological attributes of <i>Neoseiulus baraki</i> Athias-Henriot (F: Phytoseiidae)	<p><u>Accepted with following suggestions:</u></p> <ul style="list-style-type: none"> ➤ Title should be “Population dynamics of coconut eriophyid mite, <i>Aceria guerreronis</i> Keifer and biological attributes of <i>Neoseiulus baraki</i> Athias-Henriot (F: Phytoseiidae)” ➤ Objective II should be “Survey of coconut eriophyid mite, <i>Aceria guerreronis</i> Keifer ➤ Add objective related to the population dynamics of coconut eriophyid mite, <i>Aceria guerreronis</i> Keife ➤ Remove varieties from the survey ➤ In Experiment five, mention cfu in the biopesticides, absolute control

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.1.2	Mr. D.J. Bhadani 1010116003	Dr.J.J. Patel	Dr. D.M. Pathak	Morphological and biochemical basis of resistance against pod borer complex in Pigeonpea, <i>Cajanus cajan</i> (L.) Millspaugh	<p><u>Accepted with following suggestions:</u></p> <ul style="list-style-type: none"> ➤ Replace variety ICPL 87 with Vaishali ➤ In objective I Plot size should be 400 m². ➤ Remove the scientific name of insect from the observation ➤ In objective two, instead of plot size mention two rows of 5.0 m length ➤ Thickness of pod wall should be measured with the help of trinocular microscope with scope photo software ➤ Remove tenin content from biochemical analysis ➤ Biochemical analysis of only susceptible and resistant varieties should be done
7.1.3	Ms. R.C. Chauhan 101011008	Dr. A.G. Shukla	Dr. Lalit Mahatma	Biology, losses and management of acarid mites <i>Tyrophagus putrescentiae</i> Schrank in groundnut	<p><u>Accepted with following suggestions:</u></p> <ul style="list-style-type: none"> ➤ Undertake survey of Groundnut kernals only ➤ Restrict the study of biology in five oil crops only (based on review) ➤ In objective III, analyse

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
					protein and oil content ➤ Delete Karanj oil from non-edible oils
7.1.4	Mr. D.M. Damasia 1010116010	Dr. Z.P. Patel	Dr. V.A. Solanki	Biology, morphological and biochemical basis of resistance and management of Tea mosquito bug, <i>Helopeltis antonii</i> in Cashew	<u>Accepted with following suggestions:</u> ➤ Take observations at weekly interval in all the parameters ➤ Add damage score 0-4 points ➤ In leaf miner observation, select any five random lateral shoots ➤ Keep at least two trees unprotected ➤ Finalize the chemical insecticides in consultation with Dr. G.G. Radadia, Dr. Z.P. Patel and Dr. L.V. Ghetiya ➤ Analyze residues of effective treatment only
7.1.5	Mr. C.V. Khambhu 1010116017	Dr. K.G. Patel	Dr. D.M. Pathak	Standardization of rearing methods of stingless bees (<i>Tetragonula leviceps</i>)	<u>Accepted with following suggestions:</u> ➤ Plot size should be 5 m x 5.4 m in field experiments ➤ Foraging and flower behaviours should be observed for five minutes

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
					at an interval of every hour
7.1.6	Mr. Mahendrakumar B.N. 1010116019	Dr. S.P. Saxena	Dr. V.A. Solanki	Pest abundance and characterization of okra genotypes for resistance against major pests and yellow vein mosaic virus disease	<u>Accepted with following suggestions:</u> <ul style="list-style-type: none"> ➤ Modify the title as “Pest abundance and characterization of okra genotypes for resistance against major pests” ➤ Take experiments in summer season only ➤ Marketable stage should be deleted from observation ➤ Use leaf area meter for the leaf area measurement
7.1.7	Mr. D.V. Muchhadiya 1010116021	Dr. K.G. Patel	Dr. D. M. pathak	Population dynamics, varietal screening and management of pod borer complex in cowpea (<i>Vigna unguiculata</i> (L.) Walp	<u>Accepted with following suggestions:</u> <ul style="list-style-type: none"> ➤ Finalize the chemical insecticides in consultation with Dr. G.G. Radadia, Dr. K.G. Patel, Dr. L.V. Ghetiya and Dr. Sushil Singh
7.1.8	Mr. R.K. Patel 1010116029	Dr. L.V. Ghetiya	Dr. H.D. Bhimani	Mass Production technology of entomopathogenic fungi <i>Hirsutella thompsonii</i> Fisher	<u>Accepted with following suggestions:</u> <ul style="list-style-type: none"> ➤ Add 1×10^5 cfu also in objective 4

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.2	Ph.D. (Horticultural Entomology)				
7.2.1	Mr. A .T. Chaudhary 1020216002	Dr. H.V. Pandya	Dr. P. R. Patel	Morphological and biochemical basis of resistance against thrips in chilli	<u>Accepted with following suggestions:</u> ➤ Delete tannin analysis
7.3	Ph.D. (Plant Pathology)				
7.3.1	Mr. A.K. Chaudhary 1010116006	Dr. K.B. Rakholiya	Dr. A.G. Shukla	Epidemiology, symptomatology and management of false smut (<i>Ustilaginoidea virens</i> (Cooke) Takahashi of rice (<i>Oryza sativa</i> L.)	<u>Accepted with following suggestions:</u> ➤ Take wind velocity data also in epidemiology ➤ Calculate number of treatments by considering all the concentration of fungicides ➤ Mention cfu of bioagents ➤ Write methods of phytoextraction in synopsis ➤ In screening take varietal testing instead of screening ➤ Take only two spraying of fungicides in management first at the booting and second at 50 per cent panicle emergence ➤ In 3.8 give full experimental detail.

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.3.2	Mr. T.V. Ghevaria 1010116014	Dr. P.R. Patel	Dr. L.V. Ghetiya	Collar rot disease of India bean caused by <i>Sclerotium</i> sp. and its management	<u>Accepted with following suggestions:</u> ➤ Use Mancozeb instead of carboxin in contact fungicides ➤ Calculate number of treatments by considering all the concentration of fungicides
7.3.3	Mr. T.T. Baria 1010116002	Dr. B.P. Mehta	Dr. A.G. Shukla	Epidemiology and management of banana fruit speckle (<i>Deightoniella</i> sp.) under south Gujarat condition	<u>Accepted with following suggestions:</u> ➤ Instead of monthly, take weekly survey of market yard ➤ Epiemiological studies should be done by the field incidence separately ➤ Mention method of phytoextraction
7.4	Ph.D. (Horticultural Pathology)				
7.4.1	Nil	--	--	--	--

Technical session: II

Chairman: Dr. S.P. Saxena

Co-Chairman: Dr. Abhishek Shukla

Rapporteurs: Dr. H.V. Pandya and Dr. Priya John

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.5	M.Sc. (Agri) Agricultural Entomology				
7.5.1	Mr. K.H. Chauhan 2010116020	Dr. R. D. Patel	Dr. K.B. Rakholiya	Population dynamics and evaluation of insecticides against cotton thrips.	<u>Accepted with following suggestions:</u> ➤ In experiment 1, take 20 x 20 m ² plot size; minimum 50 plants must be observed. ➤ Keep objectives 1 and 2 only.
7.5.2	Mr. K.P. Chauhan 2010116021	Dr. Abhishek Shukla	Dr. Lalit Mahatma	Studies of mite fauna on sapota.	Approved
7.5.3	Ms. Gurjar Tiku S. 2010116034	Dr. M. R. Siddhapara	Dr. K.B. Rakholiya	Performance of different races/hybrids of mulberry silkworm, <i>Bombyx mori</i> L.	<u>Accepted with following suggestions:</u> ➤ Change year of experiment from 2016-17 to 2017.
7.5.4	Mr. Hadiya Hitesh R. 2010116037	Dr. D. R. Patel	Dr. D.M. Pathak	Effect of sowing date on pest complex of mungbean (<i>Vigna radiate</i> L. Wilczek)	<u>Accepted with following suggestions:</u> ➤ In experiment 1, delete word 'pupae'. ➤ In experiment 2, take morphological characters of each genotypes from breeder; add susceptible check. variety from AICRP ➤ In experiment No 3, correct the name of T3.
7.5.5	Mr. Korat Varun M. 2010116045	Dr. K. D. Bisane	Prof. B.M Naik	Validation of losses due to seed borer (<i>Trymalitis margarias</i> Meyrick) in different varieties of sapota under	<u>Accepted with following suggestions:</u> ➤ Instead of 'validation'

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
				normal and high density planting.	use word 'Estimation'/ 'assessment'.
7.5.6	Mr. Manu kumar R. 2010116050	Dr. H. R. Desai	Dr. K.B. Rakholiya	Efficacy of plant derived oils/extracts on sucking pests of bt cotton.	Accepted with following suggestions: ➤ For spraying, follow ETL. ➤ Delete the word possible sprays.
7.5.7	Ms. Patel Anjali H. 2010116059	Dr. C. U. Shinde	Dr. V.A. Patil	Biology and predatory potential of potent lady bird beetle, <i>Propylea sp.</i> on Lucerne aphid, <i>Therioaphis sp.</i> under south Gujarat condition.	Approved
7.5.8	Mr. Patel Hiral N. 2010116065	Dr. Abhishek Shukla	Dr. J.R. Pandya	Biodiversity of mantids (Mantodea) under south Gujarat	Approved
7.5.9	Mr. Prajapati J. N. 2010116086	Dr. S. R. Patel	Dr. G.B. Chopada	Biodiversity of agrobiont spiders	Approved
7.5.10	Mr. Surani Pratik M. 2010116104	Dr. S. P. Saxena	Dr. P.R. Patel	Abundance of major pests of important ornamental crops under protected cultivation.	Accepted with following suggestions: ➤ Give total area of green house. ➤ Take weekly observation instead of at 15 days interval.
7.6	M.Sc. (Hort) Horticultural Entomology				
7.6.1	Mr. Surela Vipul A. 2020216029	Dr. H.V. Pandya	Dr. P.R. Patel	Evaluation of botanical extracts against fruit borer, (<i>Helicoverpa armigera</i> Hub.) on tomato.	Accepted with following suggestions: ➤ In experiment 1, take 50 plants instead of 20 plants. ➤ In experiment 2, take 10 % concentration of leaves extracts.

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.6.2	Ms. Tandel Roma R. 2020216030	Dr. Snehal M. Patel	Dr. P.R. Patel	Biology, host plant survey and preliminary observation on the choice of host plant by adults of citrus psylla, (<i>Diaphorina citri</i>).	<u>Accepted with following suggestions:</u> ➤ Instead of Experiment 2, take laboratory trial on host preference of citrus psylla. ➤ Instead of Experiment 3, take experiment on population dynamics of citrus psylla.
7.7	M.Sc. (Agri.) Plant Pathology				
7.7.1	Mr. Gojiya Amit U. 2010116032	Dr. J. R. Pandya	Dr. A.G. Shukla	Powdery mildew of fenugreek (<i>Trigonella foenum-graceum</i> L.) and its management	<u>Accepted with following suggestions:</u> ➤ Delete words systemic, non-systemic, combi-products, control from treatment details
7.7.2	Mr. Savaliya Anil S. 2010116097	Dr. G. B. Chopada	Dr. S.R. Patel	Study on powdery mildew of mungbean (<i>Vignareidiata</i>) caused by <i>Erisiphepolygoni</i> D.C. under south Gujarat	<u>Accepted with following suggestions:</u> ➤ Mention Complete objective 1 ➤ In experiment 1, take roving survey ➤ Delete treatment T4; correct the spelling of T7 ➤ In 3.2 correct the net plot size as 1.8 m; give spacing in cm ➤ In 3.4, give 0-9 standard scale. ➤ In 4, keep title as effect of powdery mildew on yield attributing characters.

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
7.7.3	Mr. Sohaliya Nikunj Nanubhai 2010116101	Dr. D. M. Pathak	Dr. D.R. Patel	Characterization of <i>Trichoderma</i> isolates from rhizospheric soil of Bharuch and Narmada district	<u>Accepted with following suggestions:</u> ➤ In point No. 3, Give name of soil borne pathogens
7.7.4	Mr. Patel Umaben T. 2010116080	Dr. R. R. Waghunde	Dr. J.J. Patel	Characterization and management of <i>Alternaria</i> leaf spot of cotton	<u>Accepted with following suggestions:</u> ➤ In title, <i>Alternaria</i> should be non-italic ➤ In Table 1, replace Propineb with Mancozeb ➤ In Table 2, add concentrations
7.7.5	Mr. Kattpara U.L. 2010116043	Dr. Puspendra Singh	Dr. S.P. Saxena	Study on <i>Cercospora</i> leaf spot of okra	<u>Accepted with following suggestions:</u> ➤ Take title as : Leaf spot of okra (<i>Abelmoschus esculentus</i>) caused by <i>Cercospora</i> spp. And its management ➤ In Objective and 8.3, take host plant studies ➤ Write okra variety in technical programme. ➤ In 8.5 mention replications -3; delete trade names and dose need to be corrected
7.7.6	Mr. Patel Rajkumar V. 2010116072	Dr. V. A. Patil	Dr. C.U. Shinde	Investigation on rice endophytic fungi and bacteria for the management of blast (<i>Pyriculariaoryzae</i> L.) under south Gujarat	<u>Accepted with following suggestions:</u> ➤ In 1.4 A), the design should be CRD; give treatment details in

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
					tabular form ➤ Take leaves for isolation
7.7.7	Mr. Shekhda M.R. 2010116099	Dr. V. A. Patil	Dr. C.U. Shinde	Evaluation of seed bio-priming against rice (<i>Oryza sativa</i> L.) diseases	<u>Accepted with following suggestions:</u> ➤ Replace the word Evaluation with Efficacy in the title
7.7.8	Ms. Ramya R. 2010116089	Dr. Lalit Mahatma	Dr. A.G. Shukla	Synthesis of plant mediated nano-particles and their antimicrobial activities	Approved
7.8	M.Sc. (Hort) Plant Pathology				
7.8.1	Ms. Chaudhari Pooja M. 2020216003	Dr. P. R. Patel	Dr. H.V. Pandya	Symptomatology, morphology and management of <i>Axonopus compressus</i> turfgrass	<u>Accepted with following suggestions:</u> ➤ Delete treatment of Tridemorph from 3.3 ➤ Take three repetitions in 3.4



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