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Through NAU website

To,

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

**SUB: Proceedings of the Fifth meeting of Board of Studies for Plant
Protection held on 5th January 2015**

Sir/Madam,

Please find enclosed herewith the proceedings of the Fifth meeting of Board of Studies for Plant Protection held on 5th January 2015 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.
2. The Director of Research and Dean, PG Studies, Navsari Agricultural University, Navsari.
3. The Principal & Dean, N. M. College of Agriculture, Navsari Agricultural University, Navsari.

**MINUTES OF THE 5th BOARD OF STUDIES FOR PLANT PROTECTION,
NAVSARI AGRICULTURAL UNIVERSITY, NAVSARI (GUJARAT)**

Date: 05.01.2015 (Monday)

Venue: P.G. Seminar Hall, NMCA

Technical session: I

The meeting of the 5th Board of Studies for Plant Protection was held at the PG Seminar Hall, N.M. College of Agriculture, N.A.U., Navsari. First of all Dr. G.G. Radadia, Chairman & Professor and Head, Department of Entomology welcomed the newly appointed Hon'ble Vice Chancellor of NAU, Dr. C.J. Dangaria sir. Thereafter, Director of Research & Dean PG Studies Dr. A.N. Sabalpara; Principal and Dean, NMCA, Navsari Dr. M.K. Arvadia; Dr. K.G. Patel, Principal COA, Bharuch and Dr. Z.P. Patel COA, Waghai also offered the floral welcome to the Hon. Vice Chancellor. Furthermore, Chairman, Board of Studies for Plant Protection, Dr. Radadia presented the action taken report of 4th Meeting of Board of Studies for Plant Protection to the house. Dr. A.N. Sabalpara, Director of Research and Dean P.G. Studies in his speech suggested the P.G. students and guides should submit the synopsis of their students before the end of second and third semester for Master and Doctoral Degree programme, respectively. He also suggest to select the recent burning issues/innovative ideas for their P.G. research programme and initiate the molecular/biochemical work as a part of PG research work. He further suggested that the biofertilizers and biopesticides must be included in the P. G. research trial. Student must be aware about to publish their research work in National/International reputed journals with good NAAS rating. Furthermore, the package for organic pest management of insect and diseases must be developed. Hon'ble, Vice Chancellor, NAU, Navsari Dr. C.J. Dangaria sir advised all the P.G. student to work hard for their P.G. research work and further emphasized that the student of Plant Protection discipline must prepare for JRF/NET/SRF examination as ICAR is now keen interested to assess the progress of the SAU's on the basis of the numbers of students qualified in ICAR competitive examinations. Further, department wise presentations were deliberated by Department of Entomology & Department of Plant Pathology, NMCA., Navsari and Department of Entomology and Plant Pathology, ASPEE College of Horticulture and Forestry pertaining to departmental activities along with teaching, research and extension related significant achievements. A total 30 M.Sc. (Ag.) and 6 Ph.D. research programme were presented by P.G. Students from both the disciplines. The meeting was ended with the vote of thanks by Dr. C.U. Shinde. The minutes are enclosed herewith in Annexure- I to III.



Annexure- I (Technical session: II)

Chairman: Dr. K.G. Patel

Co-Chairman: Dr. V.A. Solanki

Rapaorteurs: Dr. Abhishek Shukla & Dr. Lalit Mahatma

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Remarks
5.1	Ph.D. (Agril. Entomology)				
5.1.1	Mr. Dalvaniya D. G. 1010114004	Dr. J.J. Pastagia	Dr. K. B. Rakholiya	Morphological and molecular characterization of workers of honey bee species in south Gujarat.	Accepted
5.1.2	Mr. Patel R. K. 1010114017	Dr. G.G. Radadia	V. A. Solanki	Morphological and biochemical basis of resistance against jassid, <i>Amrasca biguttula biguttula</i> (Ishida) infesting cotton under rainfed conditions.	Accepted with following suggestions <ul style="list-style-type: none">• Include observation of natural enemies.• Remove hybrids and add parents and /or Guj Cot-12 and American nectarless.• Analyze ash in Biochemical parameters.
5.1.3	Mr. Desai S. R. 1010114005	Dr. K.G. Patel	Dr. V.A. Solanki	Bionomics of spider mites (<i>Tetranychus urticae</i> Koch) infesting rose under polyhouse condition.	Accepted with following suggestions <ul style="list-style-type: none">• Ancillary observation on thrips must be recorded.• Analyze ash in Biochemical parameters.



Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Remarks
5.2	Ph.D. (Horticultural Entomology)				
5.2.1	Mr. Dave P. P. 10201044005	Dr. H.V. Pandya	Dr. P. R. Patel	Morphological and biochemical basis of resistance against shoot and fruit borer, <i>Earias vitella</i> (Fab.) infesting okra.	Accepted with following suggestions <ul style="list-style-type: none"> • Take susceptible variety Pusa sawani. • Hair length and density should be recorded on 5 days old fruits. • Instead of fruit width, girth of the top, middle and base should be taken. • Include observation of natural enemies, if present. • Also analyze Ca and ash in Biochemical parameters.
5.3	Ph.D. (Plant Pathology)				
5.3.1	Mr. Tandel D. H. 1010113025	Dr. V.A. Solanki	Dr. G.G. Radadia	Prevalence, loss assessment and management of mango (<i>Mangifera indica</i> L.) post-harvest fungal diseases.	Accepted
5.4	Ph.D. (Horticultural Pathology)				
5.4.1	Ms. Mehta N. D. 1020214010	Dr. P.R. Patel	Dr. H.V. Pandya	Epidemiology, assessment of losses and management of mango powdery mildew (<i>Oidium mangiferae</i> Berthet).	Accepted with following suggestions <ul style="list-style-type: none"> • Use 0-5 scale for the PDI.



Annexure- II (Technical session: III)

Chairman: Dr. Z.P. Patel

Co-Chairman: Dr. P.R. Patel

Reporteurs: Dr. H.V. Pandya & Dr. K.B. Rakholiya

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
5.5	M.Sc. (Agri) Agricultural Entomology				
5.5.1	Ms. Chauhan R.C. 2010114022	Dr. A.G. Shukla	Dr. Lalit Mahatma	Biology, population dynamics and screening of some French bean (<i>Phaseolus vulgaris</i> L.) varieties against two spotted red spider mite (<i>Tetranychus urticae</i> Koch.).	Accepted with following suggestions <ul style="list-style-type: none"> • Delete 'some' word from title. • Observations should be taken at weekly interval as per standard week and workout the correlation of weekly observations of pests with weather parameters of previous week. • For measuring the colour - use the instrument available at NAU.
5.5.2	Ms. Kokani P.P. 2010114042	Dr. G.B. Kalariya	Dr. K.B. Rakholiya	Evaluation of different insecticides against <i>Spodoptera litura</i> (Fabricious) on castor (<i>Ricinus communis</i> L.).	Accepted with following suggestions <ul style="list-style-type: none"> • Reframe the title as: Biology and evaluation of different insecticides against <i>Spodoptera litura</i> (Fabricious) of castor (<i>Ricinus communis</i> L.). • Correct the language and replace word 'was' with 'will be' in the technical programme.



Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
5.5.3	Mr. Mahendrakumar B. N. 2010114045	Dr. A.G. Shukla	Dr. Lalit Mahatma	Comparative biology, population dynamics and screening of some brinjal (<i>Solanum melongena</i> L.) varieties against two spotted red spider mite (<i>Tetranychus urticae</i> Koch.).	Accepted with following suggestions <ul style="list-style-type: none"> Delete 'some' word from title. Reduce number of varieties and take 15 varieties. Take observations at weekly interval as per standard week.
5.5.4	Mr. Patel A.D. 2010114057	Dr. C. J. Patel	Dr. K.B. Rakholiya	Population dynamics and management of leaf miner in summer groundnut.	Accepted with following suggestions <ul style="list-style-type: none"> Replace the word 'population dynamics' with 'incidence' in title. Use correct concentration of Imidacloprid and Flubendiamide. Mention name of groundnut variety.
5.5.5	Ms. Oak P.S. 2010114054	Dr. L. V. Ghetiya	Dr. Priya John	Effect of abiotic factors and insecticides on <i>Bracon hebetor</i> (Say).	Accepted with following suggestions <ul style="list-style-type: none"> Use the correct nomenclature of colours under study. Take 2 to 3 more botanical insecticides.
5.5.6	Mr. Patel J.D. 2010114060	Dr. D.R. Patel	Dr. D.M. Pathak	Effect of sowing date on population of pest complex of pigeonpea <i>Cajanus cajan</i> (L.) Millsp.	Accepted with following suggestions <ul style="list-style-type: none"> Title correction in bracket writes [<i>Cajanus cajan</i> (L.) Millsp.] Take FRBD design In experiment 2: revise numbers of replications as 5.

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
5.5.7	Mr. Patel P. S. 2010114065	Dr. J.J. Patel	Dr. D.M. Pathak	Population Dynamics and management of thrips [<i>Thrips tabaci</i> (Lindeman)] in onion [<i>Allium cepa</i> Linnaeus].	Accepted with following suggestions <ul style="list-style-type: none"> Reframe title as: Incidence of thrips in organic onion and its management.
5.5.8	Mr. Patel R.K. 2010114067	Dr. L. V. Ghetiya	Dr. K. B. Rakholiya	Biodiversity of Odonata in South Gujarat.	Accepted
5.5.9	Mr. Patil V.M. 2010114075	Dr. Z. P. Patel	Dr. J. R. Pandya	Study on persistence of insecticides and biology of fruit borer [<i>Helicoverpa armigera</i> (Hubner)] in chilli [<i>Capsicum annum</i> L.] under south Gujarat conditions.	Accepted with following suggestions <ul style="list-style-type: none"> Reframe title as: Biology of fruit borer (<i>Helicoverpa armigera</i> Hubner) and persistence of insecticides against sucking pests of chilli. Delete the word 'thrips' from dissipation study in Expt. No. 3.
5.5.10	Mr. R. Naganna 2010114078	Dr. C.U. Shinde	Dr. K. B. Rakholiya	Biology and parasitic potential of ecto-larval parasitoid, <i>Goniozus nephantidis</i> (Muesebeck) (Bethylidae: Hymenoptera) under south Gujarat conditions.	Accepted with following suggestions <ul style="list-style-type: none"> Add triazophos 0.04% instead of monocrotophos.
5.5.11	Ms. Rathod K. R. 2010114082	Dr. H.R. Desai	Dr. K.B Rakholiya	Incidence of bollworms on Bt and non-Bt versions of cotton hybrid under south Gujarat condition.	Accepted with following suggestions <ul style="list-style-type: none"> Delete word 'versions' from title. Reframe title as: Incidence of bollworms on Bt and non-Bt cotton hybrid under south Gujarat condition.

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
5.5.12	Mr. Tadha K. K. 2010114086	Dr. J. J. Pastagia	Dr. K. B. Rakholiya	Effect of date of sowing on abundance of pollinators and yield of niger, <i>Guizotia abyssinica</i> (L.f.) Cass.	Accepted with following suggestions <ul style="list-style-type: none"> • Change title as: Effect of date of sowing on abundance of pollinators in relation to yield of niger, <i>Guizotia abyssinica</i> (L.f.) Cass. • Take RBD Design
5.5.13	Mr. Thorat S. S. 2010114088	Dr. S.P. Saxena	Dr. K.B. Rakholiya	Seasonal abundance of major pests of tomato and bio-efficacy of insecticides and determination of terminal residues.	Accepted with following suggestions <ul style="list-style-type: none"> • Replace the word 'Seasonal abundance' with 'Incidence' in title. • Change objective: Incidence of ...whitefly • In observations mention one day instead of 24 hrs.
5.5.14	Mr. Vaishnav J.H. 2010114091	Dr. C.J. Patel	Dr. P.R. Patel	Population dynamics, biology and management of thrips in summer groundnut.	Accepted with following suggestions <ul style="list-style-type: none"> • Mention the correct spelling of Imidacloprid • Correct the formula Percent leaf damage = Number of damaged leaves x 100/ Total No. of leaves.
5.6	M.Sc. (Hort) Horticultural Entomology				
5.6.1	Mr. Chaudhary A.T. 2020214006	Dr. H.V. Pandya	Dr. P.R. Patel	Evaluation of botanical extracts against jassid [<i>Amrasca biguttula biguttula</i> (Ishida)] and whitefly [<i>Bemisia tabaci</i> Gennadius] on okra [<i>Abelmoschus esculentus</i> (L) Moench.	Accepted
5.6.2	Mr. Shah J.N. 2020214037	Dr. H.V. Pandya	Dr. P.R. Patel	Evaluation of botanical extracts against Thrips (<i>Thrips tabaci</i> Lindeman) on garlic.	Accepted

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
5.6.3	Mr. Pandya S.M. 2020214024	Dr. Snehal M. Patel	Dr. P.R. Patel	Evaluation of botanical extracts against pod borer [<i>Helicoverpa armigera</i> (Hubner)] and pod fly [<i>Melanagromyza obtuse</i> (Malloch)] on vegetable pigeon pea.	Accepted with following suggestions • Take variety GT 1/GT 101

Annexure- III (Technical session: III continue)

Chairman: Dr. K.B. Rakholiya

Co-Chairman: Dr. H.R. Desai

Reporteurs: Dr. C.U. Shinde & Dr. Hemant Sharma

Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
5.7	M.Sc. (Agri) Plant Pathology				
5.7.1	Mr. Chavda H. V. 2010114023	Dr. K. B. Rakholiya	Dr. L.V. Ghetiya	Efficacy of native bioagents on wilt incidence and plant growth of chickpea	Accepted with following suggestions: • Use the word 'PGPM' instead of 'Mycorrhiza' in Expt. No. 4.1.
5.7.2	Mr. Chaudhari C.V. 2010114016	Dr. R.F. Chaudhary	Dr. L.V. Ghetiya	Investigation on early blight disease (<i>Alternaria</i> sp.) of tomato (<i>Solanum lycopersicum</i> L.) under South Gujarat condition.	Accepted with following suggestions: • Delete the 'disease' word from title. • Take 3 repetitions in Expt. No. 5.1, 5.2, 5.3. • In point No. 5.2, use the correct formulation of T7 (Thiophanate methyl) • Delete the first concentrations in Expt. No. 5.1, 5.2 as well as fourth concentrations



Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
					<p>in Expt. No. 5.3 from all treatments.</p> <ul style="list-style-type: none"> • Add the isolates of <i>Pseudomonas</i> and <i>Bacillus</i> spp. from the other SAU's as per their availability in Expt. No. 5.4. • Delete the trade names from all experiments.
5.7.3	Mr. Ahir V.R. 2010114005	Dr. Hemant Sharma	Dr. L.V. Ghetiya	Detection of Seed-borne Mycoflora in Finger millet [<i>Eleusine coracana</i> (L.) Gaertn.] and their management	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> • Meet to Dr. Lalit Mahatma before final submission of synopsis for finalization. • Add the native isolates. • Delete the trade names from all experiments.
5.7.4	Mr. Nakum K. N. 2010114051	Dr. Pushpendra Singh	Dr. J.K. Bana	Analysis on Grey leaf blight disease of cashew (<i>Anacardium occidentale</i> L.) caused by <i>Pestalotia</i> sp.	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> • Use word 'Investigation' instead of 'Analysis' in title. • In Expt. No. 4, keep only Dual culture method. • Delete the trade names from Expt. No. 06.



Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
5.7.5	Ms. Asari M. A. 2010114007	Dr. Priya John	Dr. L.V. Ghetiya	Studies on Gamma Irradiated <i>Trichoderma harzianum</i> Rifai	Accepted with following suggestions: <ul style="list-style-type: none"> • Reframe as title as "Effect of Gamma irradiation on efficacy of <i>Trichoderma harzianum</i> Rifai" • Take 4 repetitions in Expt. No. 1 instead of 3 repetitions.
5.7.6	Ms. Pooja Yadav 2010114076	Dr. K. B. Rakholiya	Dr. C.U. Shinde	Symptomatology, Morphology and Management of stem blight of cowpea caused by <i>Macrophomina phaseolina</i> (Tassi)Goid.	Accepted with following suggestions: <ul style="list-style-type: none"> • Delete the 'Morphology' word from title. • Delete the trade names from all experiment.
5.7.7	Mr. Patel P.A. 2010114066	Dr. Pushpendra Singh	Dr. J.K. Bana	Pathogenic potential and management of seed mycoflora of chick pea (<i>Cicer arietinum</i> L.)	Accepted with following suggestions: <ul style="list-style-type: none"> • Delete the trade names from all experiment.
5.7.8	Ms. Patel R.A. 2010114071	Dr. V. A. Solanki	Dr. L.V. Ghetiya	Seed mycoflora of Rice and its management	Accepted
5.7.9	Mr. Tabis Bekriwala 2010114012	Dr. Kedar Nath	Dr. A.G. Shukla	Management of Stem Rot of Groundnut Caused by <i>Sclerotium rolfsii</i> Sacc. under South Gujarat conditions during Summer Season	Accepted with following suggestions: <ul style="list-style-type: none"> • Reframe the title as "Investigation on stem rot of Groundnut caused by <i>Sclerotium rolfsii</i> Sacc" • Delete the Expt No. 6(ii) and 7. • Delete the trade names all expts.



Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
5.7.10	Mr.Vanthana. M. 2010114093	Dr. Lalit Mahatma	Dr. A.G. Shukla	Biological and molecular characterization of tomato leaf curl virus (TLCV) infecting tomato in South Gujarat	Accepted
5.7.11	Mr.Ghevariya T. V. 2010114033	Dr. Lalit Mahatma	Dr. L.V. Ghetiya	Biological and molecular characterization of okra yellow vein mosaic virus (OYVMV) infecting okra in South Gujarat	Accepted
5.8	M.Sc. (Hort) Horticultural Pathology				
5.8.1	Mr. Ganvit M.R. 2020214015	Dr. B.P. Mehta	Dr. H.V. Pandya	Investigation On Leaf Blight of little Gourd [<i>Coccinia grandis</i> (L) Voigt] caused by <i>Alternaria</i> spp.	Accepted with following suggestions: <ul style="list-style-type: none"> •Reframe title as "Investigation on leaf blight of little Gourd [<i>Coccinia grandis</i> (L) Voigt] caused by <i>Alternaria</i> sp." •Delete the first objective from experiment. •Delete the word 'Extraction' from Expt. No. 5.1. •Biochemical analysis should be done with infected and healthy fruits in Expt. No. 10. •Add rubbing method in Expt. No. 7.1.3.



Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
5.8.2	Mr. Anjana D. A. 2020214001	Dr. P. R. Patel	Dr. H.V. Pandya	Management of post-harvest diseases of sapota (<i>Manilkara achras</i>)	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> • Reframe title as "Investigation of post-harvest diseases of sapota (<i>Manilkara achras</i>) and its management". • Use the 'Invitro' method instead of 'Invivo' in Expt. No. 4.3. • Add poison food technique in Expt. No. 6.1. • Use the 'Invitro' method instead of 'Invivo' in Expt. No. 6.3. • Include 10 minutes dipping time in Expt. No. 6.3.

