



**Department of Entomology
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No. ACN/ENT/PGT/ Minutes 6th BoS PP/1180/2016, Navsari

Date: 09/03/2016

Through NAU website

To,

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

**SUB: Minutes of the Sixth meeting of Board of Studies for Plant Protection
held on 21st January 2016**

Sir/Madam,

Please find enclosed herewith the minutes of the Sixth meeting of Board of Studies for Plant Protection held on 21st January 2016 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 6th Board of Studies for Plant Protection, NAU., Navsari

Date: 21.01.2016 [Thursday]

Venue: Seminar Hall, NMCA, NAU, Navsari

Technical session I

The meeting of the 6th Board of Studies (Plant Protection) was held at the seminar Hall, N.M. College of Agriculture, Navsari. First of all Dr. G.G. Radadia, Chairman and Professor and Head, Department of Entomology, N.M. College of Agriculture, N.A.U., Navsari welcomed the Hon'ble Vice Chancellor Dr. C.J. Dangaria; Director of Research and Dean PG Studies, Dr. A.N. Sabalpara; the Principal and Dean, NMCA, Navsari Dr. M.K. Arvadia; the Principal, COA, Bharuch Dr. K.G. Patel and COA, Waghai Dr. Z.P. Patel. Thereafter, Dr. Radadia presented the Action Taken Report of 5th BOS Meeting in the house. He discussed about various teaching, research and extension activities of the department. Dr. A.N. Sabalpara, Director of Research and Dean P.G. Studies in his speech emphasized that both Post Graduate students and guides should select the research area on current scenario and update their knowledge on those aspects. Furthermore, he gave more emphasis on the various molecular and biochemical tools in P.G research work and also suggested that some basic research can also be initiated through the P.G. research. He suggested to the scientist of both discipline that they must think on interdisciplinary approaches and IPDM packages for organic farming of various crops. Students can incorporate the biofertilizers and biopesticides in their P. G. research trials. Student must be aware about publication of their research work in peer reviewed and NAAS rated journals through Professor and Head of discipline by taking the certificate of authentication as per approved format of NAU. In the presidential address Dr. C. J. Dangaria, Hon'ble, Vice Chancellor, Navsari Agricultural University, Navsari advised to all the PG students that to work hard and took active participation into competitive examinations *viz.*, JRF/NET/SRF conducted by ICAR and now it is key to assess the progress of the Universities on the basis of the numbers of students qualified in various competitive examinations. Further, P.G. student and guides must select the research area related to the farmer's need and initiate some basic work in new horizons. The Hon'ble VC sir advised the student to regularly check the websites of leading institutes to update their knowledge.

A total thirty M.Sc. (Agri.) and nine Ph.D. research programmes were presented by P.G. Students from Agricultural/Horticultural Entomology and Plant Pathology disciplines and many programmes were approved with rational inputs. The meeting was ended with the vote of thanks by Dr. C.U. Shinde.



(G.G. Radadia)

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

Technical session: II

Chairman: Dr. K.G. Patel

Co-Chairman: Dr. V.A. Solanki

Rapporteurs: Dr. Abhishek Shukla and Dr. D.M. Pathak

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
6.1	Ph.D. (Agril. Entomology)				
6.1.1	Chaudhari Vaibhavkumar Kanubhai 1010115005	Dr. K.A. Patel	Dr. K.B. Rakholiya	Biology, losses and management of <i>Tyrophagus putrescentiae</i> Schrank in different food stuff	Accepted with following suggestions: - In title, instead of 'food stuff' specify the commodity <i>i.e.</i> gram and gram flour. - In quantitative and qualitative loss experiment, the levels of mite infestation should be similar. - Add one more treatment of Nagali oil as T ₇ in efficacy of edible oil in the management of <i>T. putrescentiae</i> and ICBR should be calculated.
6.1.2	Mr. Gurav Sandeep Sadashiv 1010115007	Dr. G.G. Radadia	Dr. V.A. Solanki	Studies on coconut black headed caterpillar <i>Opisina arenosella</i> Walker and associated larval parasitoid <i>Gonizus nephantidis</i> Muesebeck under South Gujarat conditions	Accepted
6.1.3	Ms. Patel Aditi Dilipbhai 1010115015	Dr. L.V Ghetiya	Dr. K.B. Rakholiya	Standardization of mass production technology of potent entomopathogenic fungi <i>Hirsutella</i>	Accepted with following suggestions: - Delete the treatment of starch in the experiment of testing the carrier

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
				<i>thompsonii</i> Fisher	material and add combination of talk+gypsum (1:1). - In compatibility experiment, the concentration of Imidacloprid 17.8 SL should be 0.01% and Quinalphos 25EC it should be 0.25% - Add one more treatment in efficacy trial and repetitions should be 4.
6.1.4	Patel Nikunj Kumar Mohanbhai 1010115018	Dr. Z.P. Patel	Dr. V.A. Solanki	Biodiversity, comparative biology and management strategies of fruit fly in various cucurbitaceous crops in forest ecology of Dangs, Gujarat	Accepted with following suggestions: - The design in the experiment of evaluation of different available traps in market should be RBD and mention T ₄ as Rakshak trap.
6.1.5	Mr. Srinivas, G. 1010115022	Dr. S.P. Saxena	Dr. V.A. Solanki	Comparative insect and mite biodiversity in organic and conventional farming systems and non pesticidal management of pigeon pea pests	Accepted with the following suggestions: - In okra, use variety AO-1 instead of Parbhani kranti. - Delete the crop mango and add okra, tomato and pigeonpea crops.
6.2	Ph.D. (Horticultural Entomology)				
	Nil	-	-	-	-

6.3		Ph.D. (Plant Pathology)			
6.3.1	Mr. Viral K. Desai 1010114006	Dr. V.A. Solanki	Dr. L.V. Ghetiya	Biology, epidemiology and management of sorghum (<i>Sorghum bicolor</i> L.) grain mold	Accepted with following suggestions: -Add germination % in observations. - Spray biological agents at the time of flowering in management through biological control aspects.
6.3.2	Mr. Mukesh J Patel 1010114016	Dr. V. A. Solanki	Dr. B.P. Mehta	Epidemiology and management of Gummy Stem Blight of Bottle guard (<i>Lagenariasiceraria</i> (Mol.)Stand).	Accepted with following suggestions: - Write 'varietal screening' instead of 'to find out resistant cultivar' in objectives. -Remove trade name from the all treatments.
6.3.3	Mr. Jehani Muljibhai Dajabhai 1010115009	Dr. B.P. Mehta	Dr. A.G. Shukla	Epidemiology and management of anthracnose of yam (<i>Dioscorea alata</i> L.) caused by <i>Colletotrichum</i> sp.	Accepted with following suggestions: - Add one more year i.e., 2017-18 in Epidemiology of anthracnose aspects and also mention the plot size. - In Screening aspects make compare with resistant and susceptible genotype. - Use plant extracts at 5%. - In biological control aspects, mention plot size and time as well as spraying interval.

6.3.4	Mr. Kadam Jeevan Jayaram 1010115010	Dr. A.N. Sabalpara	Dr. K.A. Patel	Epidemiology and management of early blight of tomato (<i>Solanum lycopersicum</i> L.) incited by <i>Alternaria solani</i>	Accepted with following suggestions: - Select tomato variety highly susceptible to the early blight other than Pusa Ruby.
6.4	Ph.D. (Horticultural Pathology)				
	Nil	-	-	-	-

Technical session: III

Chairman: Dr. Z.P. Patel

Co-Chairman: Dr. K.B. Rakholiya

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
6.5	M.Sc. (Agri) Agricultural Entomology				
6.5.1	Archana Dehury 2010115005	Dr. C.U. Shinde	Dr. V. A. Patil	Biology, seasonal cyclicality and management of lucerne aphid	Accepted with following suggestion: - Delete water spray from Table 1 (T ₁₀)
6.5.2	Bhoya Kalpana M. 2010115014	Dr.C.J.Patel	Dr.P.R.Patel	Biology and physico-morphic basis of resistance in brinjal against shoot and fruit borer	Accepted with following suggestions: - Take size of shoot instead of stem. - Take Fruit shape and colour. - Take flower colour. - Change the varieties/genotypes and keep other than previous student Mr. Patil D.L.
6.5.3	Chaudhari Shefali D. 2010115022	Dr. P. D. Ghoghari	Dr. Hemant Sharma	Biological attributes and efficacy of Entomopathogenic fungi, <i>Metarhizium anisopliae</i> against rice sheath mite, <i>Steneotarsonemus spinki</i> Smiley.	Accepted with following suggestions: - Delete 'under green house condition' from objective No. 3 and

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
					Exp. 3 - Keep 1×10^{10} , 1×10^8 1×10^6 and 1×10^{14} cfu/ml in treatment No. 1,2,3 and 4, respectively
6.5.4	Kachhela Haresh R. 2010115052	Dr. J. J. Pastagia	Dr. K. B. Rakholiya	Effect of date of sowing on abundance of pollinators in relation to yield of niger, <i>Guizotia abyssinica</i> (L.f.) Cass.	Approved
6.5.5	Lakum Manish B. 2010115061	Dr. P. D. Ghoghari	Dr. Hemant Sharma	Population dynamics and chemical control of rice sheath mite, <i>Steneotarsonemus spinki</i> smiley (Acari: Tarsonemidae) on rice crop " <i>Oryza sativa</i> L.	Approved
6.5.6	Makvana Rajesh M. 2010115064	Dr. J. J. Patel	Dr. R. R. Waghunde	Succession of major pests and effect of spacing and bio fertilizer on cowpea pod borer	Accepted with following suggestions: - Replace the word 'bio' with 'organic' in the title. - In 12.2, (4) design should be split plot. - In 12.3, JEEVAMRUT and NADEP should be capital. - In B3, the treatment should be (B1+B2)/2.
6.5.7	Patel Divyesh N. 2010115081	Dr. D. R. Patel	Dr. D. M. Pathak	Seasonal incidence of major insect pests of cauliflower and management of diamondback moth	Accepted with following suggestions: - Delete Scientific names of natural enemies. - In weather

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
					<p>correlation studies: take weather parameters of preceding week.</p> <ul style="list-style-type: none"> - Correct the spelling of Treatment No. 4 in details of treatments - In Exp. 3, replications should be 5. - Calculate correct plot size in Exp. 3.
6.5.8	Patel Priyanka J. 2010115091	Dr. J. J. Patel	Dr. D.M.Pathak	Population dynamics, varietal screening and bio-efficacy of insecticides against sucking pests in summer okra	Approved
6.5.9	Sanghani Niraliben J. 2010115103	Dr. G. R. Bhanderi	Dr. Priya John	Feeding potential of <i>Cheilomenes sexmaculata</i> (F.) on aphid and mealybug and their relative safety/susceptibility to pesticides used in <i>Bt</i> cotton	<p>Accepted with following suggestion:</p> <ul style="list-style-type: none"> - Delete the word 'safety and <i>Bt</i>' from the title. - Contact Dr. L.V. Ghetiya for finalization of treatments.
6.5.10	Sharma V. G. 2010115107	Dr. S.P. Saxena	Dr. Susheel Singh	Biology of tomato fruit borer, bioefficacy and persistence of insecticides against pest complex of tomato	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> - Check plot size and change accordingly
6.5.11	Vivek T.S. 2010115118	Dr. G. B. Kalariya	Dr. k. B. Rakholiya	Biology and survey of mango shoot borer, <i>Chlumetia transversa</i> Walker under South Gujarat conditions	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> - Change variety from Kesar to Alphonso - Recast methodology

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
6.5.12	Zinzuvadiya H. D. 2010115120	Dr. H.R. Desai	Dr. K.B. Rakholiya	Morphological and molecular variations in populations of pink bollworm in south Gujarat	Approved
6.6	M.Sc. (Hort) Horticultural Entomology				
6.6.1	Patel Prashant P. 2020215044	Dr. Snehalben M. Patel	Dr. P.R. Patel	Biology and Host Preference of Lemon Butterfly (<i>Papilio demoleus</i> Esper) Under South Gujarat Condition	Accepted with following suggestions: - In Experiment 2, T4, spelling is Bael - In rearing methodology, prepare the cage by using net to give natural condition. - Take 25 twigs from 4 trees in Exp. No.3 - Use potted plants in Exp. No. 3.
6.6.2	Thakor Dilip C. 2020215058	Dr. Snehalben M. Patel	Dr. P.R. Patel	Evaluation of botanical extracts against Aphid (<i>Brevicoryne brassicae</i> Linnaeus) on cabbage (<i>Brassica oleraceae</i> var. <i>capitata</i> Linn.)	Accepted with following suggestions: - Title should be "Seasonal abundance and evaluation of botanical extracts against Aphid (<i>Brevicoryne brassicae</i> Linnaeus) on cabbage (<i>Brassica oleraceae</i> var. <i>capitata</i> Linn.)". - Correct the plot size in Exp. No. 1 - Replace <i>Dhatura</i> , <i>Naffatiya</i> and <i>Akdo</i> with other three botanicals.

Point No.	Name of the student	Major Guide	Co-Guide	Title of the Research work	Suggestions
					- Add vapor pressure in weather parameters. - Take weather parameters of preceding week.

Technical session: III continue

Chairman: Dr. B.P. Mehta

Co-Chairman: Dr. S.P. Saxena

Rapporteurs: Dr. C.U. Shinde and Dr. Hemant Sharma

Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
6.7	M.Sc. (Agri) Plant Pathology				
6.7.1	Arjunsinh Rathava 2010115006	Dr. D. M. Pathak	Dr. D. R. Patel	Symptomatology, epidemiology and Bioassay of anthracnose of cowpea	Accepted with following suggestion: - Recast title as "Symptomatology, epidemiology and bioassay study of anthracnose of cowpea"
6.7.2	Bhagyashree 2010115013	Dr. A.N.SABALPARA	Dr. K.A. Patel	Studies on leaf spot (<i>Botryodiplodia sp</i>) of ornamental orchid (<i>Dendrobium sp.</i>) under South Gujarat condition	Accepted
6.7.3	Bipinchandra Vahunia 2010115015	Dr. Puspendra Singh	Prof. S.G. Parmar	Ecofriendly management of castor (<i>Ricinus communis</i> L) wilt caused by <i>Fusarium oxysporium f.sp.ricini</i> in south Gujarat condition.	Accepted
6.7.4	Chaudhary D.A. 2010115025	Dr. Kedar Nath	Dr. Abhishek Shukla	Epidemiology and management of groundnut leaf blight caused by <i>Alternaria alternata</i> in south Gujarat condition"	Accepted with following suggestion: - Add design in Expt. No. 3. - Check the No. of repetitions in all Expt with consultation of statistician.

Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
					- Add statistical design & Plot size in Expt. "Field evaluation of fungicides and bio-agents" with consultation of statistician.
6.7.5	Chaudhary D.H. 2010115026	Dr. D.M. Pathak	Dr. J. J .Patel	Symptomatology, epidemiology and bioassay of dry root rot of soybean	Accepted with following suggestion: -Soil depth at 15,20 and 25 cm. -Weather parameters should be recorded.
6.7.6	Chaudhary M.M. 2010115027	Dr. Priya John	Dr. C.U. Shinde	Studies on the characterization of oyster mushroom (<i>Pleurotus</i> sp)	Accepted with following suggestion: -Take 4 repetitions in Point. No. 4.3, 4.4 and 4.5. -Add location "Narmada district" in survey work -Recast title as "Characterization of oyster mushroom (<i>Pleurotus</i> sp.) under south Gujarat conditions"
6.7.7	Chauhan K.R. 2010115029	Dr. R. R. Waghunde	Dr. C. U. Shinde	Biochemical analysis and eco-friendly management of Alternaria Fruit Rot of Tomato	Accepted with following suggestion: -Add control treatment in Point. No. 6.1.
6.7.8	DORE R 2010115038	Dr. Lalit Mahatma	Dr. Abhishek Shukla	Biological and molecular characterization of chilli leaf curl virus (ChiLCV) infecting chilli in South Gujarat	Accepted

Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
6.7.9	Ghinaiya H.K. 2010115046	Dr. J. R. Pandya	Dr. Abhishek Shukla	Evaluation of seed bio-priming against tomato diseases	Accepted with following suggestion: -Add % disease intensity in Point. No. 1.
6.7.10	Kishan Kumar Sharma 2010115058	Dr. Vijay A. Patil	Dr. C.U. Shinde	Investigation of sheath blight disease [<i>Rhizoctonia</i> spp.] of paddy(<i>Oryza sativa</i> L.) under South Gujarat condition	Accepted
6.7.11	Patel N. Y. 2010115088	Dr. Pushpendra Singh	Dr. Rajkumar B.K	Characterization of <i>Fusarium oxysporium</i> f.sp. <i>ricini</i> causing wilt of castor (<i>Ricinus communis</i> L.)	Accepted
6.7.12	Patel S. V. 2010115092	Dr. Hemant Sharma	Dr. G. B. Kalaria	Biological control of mango diseases	Accepted with following suggestion: - Remove word "Enriched" from all the treatments of Expt. No. 1.2.1.
6.7.13	Vaja S. J. 2010115116	Dr. Hemant Sharma	Dr. P. D. Ghoghari	Detection of seed-borne mycoflora in sorghum [<i>Sorghum bicolor</i>] and their management	Accepted
6.7.14	Vihol V. J. 2010115116	Dr. K.B.Rakholiya	Dr. A. Shukla	Symptomatology and management of bacterial wilt (<i>Ralstonia solanacearum</i> Smith) of brinjal	Accepted with following suggestion: -Delete 'Ceresan-6' from Expt. "Evaluation of fungicides against <i>Ralstonia solanacearum</i> _in vitro". - Meet to statistician for finalization of treatments and repetition. - Add standard methodology in Expt. "Testing of effective

Point No.	Name of the student	Major Guide	Co- Guide	Title of the Research work	Suggestions
					chemicals and bio-agents in pot condition for management of bacteria wilt of brinjal".
6.8	M.Sc. (Hort) Horticultural Pathology				
6.8.1	Rathva Alkesh Kumar	Dr. B. P. Mehta	Dr. H.V. Pandya	"Investigation On anthracnose Of pointed gourd [<i>Trichosanthes dioica</i> Roxb.] caused By <i>Colletotrichum sp.</i> "	Accepted with following suggestion: -Add plot size in Experimental detail. -Epidemiology experiment should be conducted in unsprayed field.
6.8.2	Chauhan Rinkal T.	Dr. P. R. Patel	Dr. H.V. Pandya	Evaluation of seed bio-priming against chilli diseases"	Accepted with following suggestion: -Add plot size in Experimental detail. -Epidemiology experiment should be conducted in unsprayed field.
