

## CIRCULAR

All members of Board of Studies for Fruit Science and Plantation Crops, Spices, Medicinal & Aromatic Crops are hereby informed that a meeting is scheduled on 21<sup>st</sup> September at 8.00 am in the Conference Hall of ASPEE College of Horticulture and Forestry, NAU, Navsari to discuss following agenda. Therefore, all the members of Board of Studies for Fruit Science and PSMA are requested to make it convenient to remain present.

### AGENDA

1. Confirmation of proceeding of the 4<sup>th</sup> meeting of Fruit Science and PSMA Board of Studies.
2. To discuss the New Technical Programmes of Department and Post Graduate students.
3. To discuss the Academic, Research and Extension activities related issues.
4. Any points raised by the Chair.

No. ACHF/SJP/Fruit Sci./ 17249-  
88/2015 Navsari, Date: 7/9/2015



Chairman

Board of Studies for Fruit Science & PSMA  
ASPEE College of Horticulture and Forestry  
NAU, Navsari

Copy with respect To,

1. PS to VC, NAU, Navsari
2. Director of Research & Dean, PG studies, NAU, Navsari
3. Dean, ASPEE College of Horticulture and Forestry, NAU, Navsari

Copy To,

1. All members of the Board of Studies for Fruit Science & PSMA
2. Head of the Departments – Vegetable Science, Floriculture, Post Harvest Technology, Horticulture Entomology, Horticulture Pathology, Horticulture Soil Science & Agril. Chem. and Biotechnology to make it convenient to remain present.
3. PG Notice Board

## Members of Board of Studies for Fruit Science, Plantation, Spices, Medicinal & Aromatic Crops

SN	Name	Designation
1	Dr. S. J. Patil	Professor and Head (Fruit Sci.), ACHF, NAU, Navsari
2	Dr. B. R. Parmar	Prof. & Head (Hort.), NMCA, NAU, Navsari
3	Dr. A. N. Patel	Assoc. Res. Sci. (Fruit Sci.), FRS, NAU, Gandevi
4	Dr. D. K. Sharma	Assoc. Res. Sci. (Fruit Sci.), AES, NAU, Paria
5	Dr. T. R. Ahlawat	Assoc. Prof. (Fruit Sci.), ACHF, NAU, Navsari
6	Dr. R. V. Tank	Assoc. Prof. (Fruit Sci.), ACHF, NAU, Navsari
7	Dr. S. S. Gaikwad	Assoc. Prof. (Hort.), Hort. Poly., AES, NAU, Paria
8	Dr. M. M. Patel	Assoc. Prof. (Fruit Sci.), ACHF, NAU, Navsari
9	Dr. Virendra Singh	Assoc. Prof. (Hort.), COA, NAU, Bharuch
10	Dr. B. M. Tandel	Assoc. Prof. (Fruit Sci.), ACHF, NAU, Navsari
11	Dr. Sanjay Attar	Asst. Prof. (Fruit Sci.), ACHF, NAU, Navsari
12	Dr. C. R. Patel	Asst. Prof. (Fruit Sci.), ACHF, NAU, Navsari
13	Dr. Y. N. Tandel	Asst. Prof. (Fruit Sci.), ACHF, NAU, Navsari
14	Dr. Bimal Desai	Asst. Prof. (Botany), ACHF, NAU, Navsari
15	Dr. Vimlesh Patel	Asst. Res. Sci. (Hort.), AES, NAU, Paria
16	Dr. P. P. Bhalerao	Asst. Prof. (Fruit Science), ACHF, NAU, Navsari
17	Prof. K. A. Patel	Asst. Prof. (Hort.), ACHF, NAU, Navsari
18	Dr. N. S. Thakur	Asst. Prof. (PSMA), ACHF, NAU, Navsari
19	Prof. N. M. Patel	Asst. Prof. (Hort.), NMCA, NAU, Navsari
20	Prof. Amrutbhai Patel	Asst. Prof. (Hort.), FRS, NAU, Gandevi
21	Prof. Pravin Modi	SMS (Hort.), KVK, NAU, Vyara
22	Dr. A. K. Pandey	Asst. Prof. (Fruit Sci.), ACHF, NAU, Navsari
23	Prof. Dixita Prajapati	Asst. Prof. (Fruit Sci.), ACHF, NAU, Navsari
24	Prof. Bhumika Patel	Asst. Prof. (Fruit Sci.), ACHF, NAU, Navsari
25	Dr. Pushparaj Solanki	Asst. Res. Sci. (Hort.), AES, NAU, Paria
26	Prof. Jigar Gohil	Asst. Prof. (Hort.), Agril. Polytechnic, NAU, Vyara
27	Dr. B. K. Bhatt	Assoc. Prof. (Statistics), ACHF, NAU, Navsari
28	Prof. H. N. Chhatrola	Asst. Prof. (Statistics), ACHF, NAU, Navsari
29	Dr. B. V. Padhiar	Rtd. Professor and Head (Fruit Sci.), ACHF, NAU, Navsari

**All the Major Advisor's should prepare their students New Technical Program and student will present with power point presentation in Board of Studies**

**Proceedings of Fourth Board of studies of Fruit Science and PSMA, ASPEE College of Horticulture and Forestry, NAU, Navsari held on 25-09-2014**

Technical programs of Ph.D. (Fruit Science)

Department: Fruit Science

Sr. No.	Name of the Student	Name of the Guide	Title of Research	Suggestions
1.	Mr. Santosh Rakhamaji Barkule	Dr. N. I. Shah	Influence of different growth regulators on yield, quality and shelf life of sapota ( <i>Manilkara acharas</i> (Mill. Fosberg) var. Kallipatti	<ul style="list-style-type: none"> <li>• In title, remove growth regulators and replace with chemical substances</li> <li>• Delete “ Pre-harvest” word from objectives</li> <li>• Remove treatment C<sub>8</sub> and instead of that take absolute control</li> <li>• use word ‘ Recommendation” for treatment C<sub>7</sub></li> <li>• Mention age of trees, maintain pH of solution to be sprayed</li> <li>• Physical characters of observation should be taken at 3 months interval and add growth parameters viz; spread of canopy NS and EW, incremental height and no. of shoots; physiological parameters- weight of fruits / tree and economics</li> </ul>
2.	Miss. Tulsi Dharmvir Gurjar	Dr. S. J. Patil	Response of foliar application of micronutrients on banana cv. Grand Nain	<ul style="list-style-type: none"> <li>• Take 6 plants/ treatment</li> <li>• Finalize treatments with committee of Dr. N.I. Shah, Dr. K. G. Patel, Dr. A.N. Patel and Dr. S.J. Patil and take Novel organic liquid fertilizers and micronutrient Grade – IV</li> <li>• Also analyze NPK content in leaf tissue</li> <li>• Observe visual toxicity if any</li> <li>• Take growth parameters at 5<sup>th</sup> and 7<sup>th</sup> MAP only.</li> </ul>
3.	Miss. Dixita Dalpatram Prajapati	Dr. Virendra Singh	Effect of foliar application of micronutrients and banana pseudo stem sap at different acidity levels of spray solution on flowering, fruit quality and yield of mango ( <i>Mangifera indica</i> L.) cv. Kesar	<ul style="list-style-type: none"> <li>• Recast the title</li> <li>• Visit the orchard of Bharuch with Dr. N. I. Shah and Dr. S. J. Patil and decide the site of experiment</li> <li>• Apply the treatment at induction of flowering and full bloom stage</li> <li>• In pH level, edit 5.5 instead of 5.0 and spray Boric acid @ 0.2%</li> <li>• Delete flowering characters and take observation on fruit set at marble and harvest stage, peel (%) and physiological</li> </ul>

Sr. No.	Name of the Student	Name of the Guide	Title of Research	Suggestions
				parameters <ul style="list-style-type: none"> <li>• Tag 5 panicles in each direction for observation</li> </ul>
4.	Miss. Darshana Bhupendrabhai Chaudhary	Dr. T. R. Ahlawat	Assessment of genetic diversity in mango collections ( <i>Mangifera indica</i> L.)	<ul style="list-style-type: none"> <li>• Use earlier data of characterization in mango varieties done at AES, Paria and plan further research with consultation with committee – Dr. N. I. Shah, Dr. A. I. Patel, Prof. Taslim Ahemad, Dr. C .R. Patel, Dr. B. V. Padhiar and Prof. H . N. Chahatrola and finaliz with Dr. B. N. Patel.</li> </ul>
5.	Ganvit Swatikumari Arjunbhai	Dr. T. R. Ahlawat	Effect of soil and foliar application of silicon on fruiting, yield and quality of mango cv. Kesar	<ul style="list-style-type: none"> <li>• Merge objective 1 and 2 as yield and quality traits</li> <li>• Spray treatments at induction of flowering and sorghum stage of fruit</li> <li>• Take physiological characters, phytotoxic effect and sex of flower ( hermaphoride and male)</li> </ul>

#### Technical programs of M. Sc. (Fruit Science & PSMA)

Sr. No.	Name of the Student	Name of the Guide	Title of Research	Suggestions
1.	Mr. Rathava Kajalben Kesarsinh	Dr. N. I. Shah	Effect of ringing and etiolation with IBA on Jackfruit ( <i>Articarpus heterophyllus</i> L.) cutting	<ul style="list-style-type: none"> <li>• Mention dipping time and method</li> <li>• Use hardwood cutting for experiment and take observation at 60, 120 and 180 days after cutting.</li> </ul>
2.	Mr. Chaudhary Ashishkumar Arvindbhai	Dr. S. J. Patil	Response of paclobutrazol on top working mango var. Sonpari	<ul style="list-style-type: none"> <li>• Remove treatments T<sub>5</sub>, T<sub>6</sub>, T<sub>7</sub> and take 1% KNO<sub>3</sub> with T<sub>2</sub>, T<sub>3</sub> and T<sub>4</sub>,</li> <li>• Delete flowering characters, take observation no. of fruit set at pea size stage, at marble and harvest stage per panicle, hermaphrodite flowers(%) and female flowers (%), length and breadth of panicles and flowering shoot (%)</li> </ul>
3.	Kachhadia Palak Arvindbhai	Dr. R. V. Tank	Response of paclobutrazol in headed back mango ( <i>Magnifera indica</i> L.) cv. Rajapuri.	<ul style="list-style-type: none"> <li>• Take fruits set at marble and harvest stage and hermaphrodite flowers(%)</li> </ul>
4.	Thorat Dipika Rameshbhai	Dr. Y. N. Tandel	Effect of antitranspirants on growth and survival of epicotyl grafts of mango ( <i>Magnifera indica</i> L.) cv. Kesar.	<ul style="list-style-type: none"> <li>• Take observation no. 5,6,7,8 before spray and at 5,10,15,25,30 days after treatment and growth parameters at 45 days interval</li> </ul>

Sr. No.	Name of the Student	Name of the Guide	Title of Research	Suggestions
5.	Mr. Parmar Anirudh Balvantsinh	Dr. Y. N. Tandel	Assessment of genetic diversity using D <sup>2</sup> analysis in sapota ( <i>Manilkara acharas</i> (Mill.) Fosberg)	<ul style="list-style-type: none"> <li>Clarify the methodology in synopsis.</li> <li>Contact to Dr. A. N. Patel and recast this experiment on physiological character of sapota varieties in summer and winter season</li> </ul>
6.	Patel Dharmishtha Dhirajlal	Dr. S. S. Gaikwad	Influence of seed primng treatments on germination and seedling vigour of custard apple ( <i>Annona quamosa L.</i> ) cv. Local.	<ul style="list-style-type: none"> <li>In second objectives put word “seedling” before growth</li> <li>Take 50 seeds per treatment</li> <li>Give common treatment of warm water soaking (55° C) for 24 hrs and for chemical treatments time should be 15 minutes</li> </ul>
7.	Patel Dharmishtha M	Dr. D. K. Sharma	Effect of season and growing environment on success of budding in tamarind ( <i>Tarmarindus indica L.</i> )	<ul style="list-style-type: none"> <li>In first objective, delete the word “period”</li> <li>recast second objective as “ to know the effect of environmental condition on budding of tamarind” and third objective as “ to know the interaction effect”</li> <li>In treatments, remove S<sub>1</sub> and S<sub>7</sub> and growing environment as E<sub>1</sub> open condition, E<sub>2</sub>- net house condition and E<sub>3</sub>- low polythene tunnel condition</li> <li>Take 25 plants per treatments</li> <li>Mention age of rootstock and record weather parameters viz, temperature and RH</li> </ul>
8.	Rathava Alpeshbhai Damabhai	Dr. Virendra Singh	Influence of propogation media on rooting and growth of hardwood and semi – hardwood cuttings of pomegranate Cv. Bhagawa	<ul style="list-style-type: none"> <li>Mention the selection of cuttings bag size (6” × 9”)</li> <li>Analyse the soil sample and take red soil instead of only soil</li> <li>Take vermicompost instead of saw dust</li> <li>Remove observation no. 5 and 10</li> <li>Delete word percentage from observation no. 11 and 12</li> </ul>
9.	Chaudhary Hiralal Lumbabhai	Dr. Vimlesh K. Patel	Effect of type of cutting and growth regulators on rooting of wax apple ( <i>Syzygium samarangense L.</i> )	<ul style="list-style-type: none"> <li>Recast second objective</li> <li>design will be FCRD</li> <li>take 30 cuttings / treatment</li> <li>Mention dipping time, unit of observation, time of experiment and environmental condition, bag size</li> <li>take observation at 1 month interval</li> </ul>
10.	Jnyana Ranjan	Dr. B. N. Patel	Effect of pseudo stem sap and novel	<ul style="list-style-type: none"> <li>Recast the title with foliar application and banana pseudo</li> </ul>

Sr. No.	Name of the Student	Name of the Guide	Title of Research	Suggestions
	Digal		organic liquid fertilizer on fruit set, yield and quality in mango cv. Alphonso	<ul style="list-style-type: none"> <li>stem sap</li> <li>Remove the treatment So and analysed with control v/s rest</li> <li>Tag 5 panicles in each direction</li> <li>Take observation on shelf life, pest – disease occurrence, spongy tissue, pulp: peel % and calculate economics</li> </ul>
11.	Le Khandu Thogdok	Dr. S. J. Patil	Effect of IAA, BAP and ZnSO <sub>4</sub> on the success of epicotyl grafting in mango cv. Kesar	<ul style="list-style-type: none"> <li>Recast the title with effect of scion dip treatment on success</li> <li>Mention dipping time of each chemicals</li> </ul>
12.	Chaudhary Rameshkumar Rahabhai	Dr. M. M. Patel	Response of <i>Aloe vera</i> as influenced by organic and inorganic sources of fertilizer	<ul style="list-style-type: none"> <li>Recast the title</li> <li>Apply organic manures equivalent to its N base</li> <li>Mention the time of application of organic manure</li> <li>Analyzed the soil before and after application</li> <li>Take observation on no. of leaves, crude fibre and economics</li> </ul>
13.	Ashwini R. Yaddlagundi	Dr. M. M. Patel	Assessment of phytoremediation potential of <i>Ocimum species</i>	<ul style="list-style-type: none"> <li>Mention <i>Ocimum species</i>, design of experiment, pot size, age of seedling, sample size</li> <li>take observation at 3 month interval and analyse the media</li> </ul>
14.	Ganvit Ajaykumar Mohanbhai	Dr. Bimal S. Desai	Effect of different seed treatment and media on growth of Ashwagandha ( <i>Withania Somnifera</i> (L.) Dunal)	<ul style="list-style-type: none"> <li>Recast the treatments</li> <li>Use bag of 6” × 9” size</li> </ul>
15.	Zinzala Mukeshkumar Rajabhai	Dr. P. P. Bhalerao	Effect of foliar application of plant growth regulators on growth, yield, and quality of Garlic ( <i>Allium sativum</i> L.) var. GG- 10	<ul style="list-style-type: none"> <li>Foliar application should be done at 30 and 60 DAP</li> <li>Take growth parameter at 60 and 90 DAP</li> <li>Store bulb for 6 months and take TSS and PLW (%) observation</li> <li>Take GG-3 / GG- 10 variety</li> </ul>
16.	Patel Apexa	Dr. C. R. Patel	Effect of scion treatments on sprouting, survival and growth of softwood grafts in mango ( <i>M.indica</i> L.)	<ul style="list-style-type: none"> <li>Recast objectives with Dr. S. J. Patil</li> <li>In storage of scion add fresh scion while in coating of scion, add 5% Acacia gum</li> <li>Take 25 scion per treatments</li> </ul>
17.	Mr. Panchal Sureshbhai Babubhai	Dr. V. K. Patel	Standardization of time and method of grafting in Custard apple ( <i>Annona quamosa</i> L.) cv. Sindhan, under South Gujarat condition.	<ul style="list-style-type: none"> <li>In title of research work, use word “ grafting method” instead of “method of grafting”</li> <li>Mention the age of rootstocks and keep 25 plants / treatment</li> </ul>

Sr. No.	Name of the Student	Name of the Guide	Title of Research	Suggestions
				• Take observation at 2, 4 and 6 month after grafting.



Chairman  
Board of Studies for  
Fruit Science & PSMA  
ACHF, N. A. U., Navsari

**ALL THE MAJOR ADVISOR'S SHOULD SEND THEIR ACTION TAKEN ON OR BEFORE 15/09/2015 ON**  
[goldmedalist@rediffmail.com](mailto:goldmedalist@rediffmail.com) and [hariombhupi@gmail.com](mailto:hariombhupi@gmail.com)

Sr. No.	Name of the Student	Name of the Guide	Suggestions	Action to be taken