

# **Proceedings of the Fourth Meeting of Board of Studies for Basic Science of Navsari Agricultural University**

**Venue: Conference Hall, ACHF, NAU, Navsari**

**Date: 20.11.2013**

**Time: 09.30 to 13.30 hr**

The chairman of Board of Studies for Basic Sciences welcomed the respected Director of Research and dean, P.G. studies along with respected deans Dr. N.L. Patel and Dr. M.K. Arvadia and members of the board of studies followed by floral welcome. The chairman of Board of studies requested Dr. A.N.Sabalpara, Director of Research and Dean, P.G.studies,N.A.U.Navsari to preside today's meeting. The chairman briefed the dignitaries and members about the importance of Basic sciences and emphasized to be active looking to the research framework of the University.

In his presidential speech, the Director of Research and Dean PG studies Dr. A.N.Sabalpara discussed the PG research programs and academic issues to be talked carefully in the discipline of Plant Physiology, Biochemistry, Microbiology and Bio-mathematics. He acquainted with the need of adding animal science groups like veterinary biochemistry, veterinary microbiology and veterinary physiology in basic science group. He also emphasized that plant physiology group must be proposed new research programs in AGRESCO meeting as well as microbiology is a vast field to be explored in terms of work on useful microorganisms and formulations like bio-weedicide, PGPR, insect bio control, soil conditioning microorganisms etc. He suggested that PG guide should decide research title of the PG student in first semester and should complete the PG research work within stipulated time.

Dr. N. L. Patel, Dean, ASPEE College of Horticulture and Forestry, accentuated that Biotechnology discipline should be included in basic science group. He emphasized that the Basic Science group is small but its importance is very crucial for the development of Agricultural research.

Dr. M.K. Arvadia, Dean, N. M. College of Agriculture suggested that all the faculties of different departments working in one discipline should be coordinated in proper manner for efficient research works and also emphasized that one biochemistry course must be made compulsory at PG level.

A special invitee and Officer on Special duty, Dr. V. Kumar, has recognized need of more faculties and scientists in plant physiology and biochemistry to strengthen teaching and research. Further he suggested that scientists who are working in DGR, Junagadh and Salinity Research Station, Bharuch must be included in the list of external PG examiners while remove the names of examiners form list who are not eligible. He also stated that UG and PG students should be encouraged for civil and state services examinations.

Meeting was started with the reading of action taken report of third meeting of Board of Studies of Basic Science held on 7<sup>th</sup> November 2012, which was adopted. The action taken report was approved in the meeting.

In the departmental presentation of Plant Physiology, Biochemistry and Agricultural Microbiology were presented by Dr. Ajay V. Narwade, Dr. Sonal Tripathi and Dr. M. D. Khunt respectively. During the departmental presentation, Director of Research and Dean PGS also highlighted that departmental activities, publications, seminar/symposia/training attended by scientists, actual contact hours should be included as per API score card. He also stated that updated list of PG external examiner along with contact details must be send to Director of Research and Dean PGStudies office through proper channel. He emphasized that the new faculties should put new experiments in the AGRESCO or they should involve them self in the existing departmental research experiments.

Post graduate student experimental research outlines were presented in the Board of Studies meeting of Basic Science discipline and the same were approved with the suggestions mentioned in the Annexure-1

At last, meeting was ended with vote of thanks by Dr. Diwakar Singh, Assistant Professor, Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari.

No. ACHF/PP/T-1/2658-59/2014

Dated: 31.01.2014

**Chairman**

Board of studies of Basic Sciences and Professor  
Dept. of Pl. Patho., ACHF, NAU, Navsari

## Annexure-I

### Post Graduate student experimental research outlines presented in Board of Studies meeting of Basic Science discipline Plant Physiology, Biochemistry and Agricultural Microbiology held on 20<sup>th</sup> November, 2013 at NAU, Navsari

No.	Name of the student	Name of Major Advisor with Designation	Title of PG research	Suggestions
<b>M.Sc. (Plant Physiology)</b>				
<b>BBS.4.1.1</b>	Ms. Damor Parthvee	Dr. A. V. Narwade Assistant Professor Department of Plant Breeding and Genetics NMCA, NAU, Navsari	Effect of water stress on physiological, biochemical, yield and yield components in pigeon pea ( <i>Cajanus cajan</i> L. Millsp.) under rabi season	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Decrease genotype from 10 to 6.</li> <li>• Specify the time of physiological and biochemical analysis of samples.</li> <li>• Mention net and gross plot size</li> <li>• Correct main plot treatment.</li> </ul>
<b>M.Sc. (Biochemistry)</b>				
<b>BBS.4.1.2</b>	Mr. Gamit Ketul	Dr. Sonal Tripathi Associate Professor Department of Soil science and agriculture chemistry NMCA, NAU, Navsari	Effect of biotic and abiotic elicitor on tomato plant defence response against <i>Fusarium oxysporum f.sp. lycopersici</i>	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Change title as “Effect of different elicitors on tomato plant defence response against <i>Fusarium oxysporum f.sp. lycopersici</i>”.</li> <li>• Treatment T<sub>4</sub> should be kept at T<sub>2</sub> position.</li> <li>• Mention stages and doses of fungicide application.</li> <li>• Mention time of different treatments in methodology</li> <li>• Observation on root length, shoot length, plant fresh weight and dry weight need to be recorded</li> </ul>

<b>BBS.4.1.3</b>	Mr. Mehta Amit A.	Dr. Diwakar Singh Assistant Professor Department of Plant Molecular Biology and Biotechnology ACHF, NAU, Navsari	Post harvest biochemical changes in Cabbage ( <i>Brassica oleraceae</i> var. <i>capitata</i> L.) in relation to pre-harvest water stress.	<p><b>Accepted with following suggestions:</b></p> <ul style="list-style-type: none"> <li>•Set objectives in accordance with the title</li> <li>•Remove design, treatment and repetitions from observations to be recorded.</li> <li>•Biochemical, protein profiling and enzyme assay must be performed at 2,4,6,8 and 10 days after harvest.</li> <li>•Yield and yield attribute should be included.</li> <li>•Specify sampling part to be analyzed.</li> </ul>
<b>BBS.4.1.4</b>	Ms. Vaghasiya Hetal	Dr. Nilima Karmakar Assistant Professor Department of Soil science and chemistry NMCA, NAU, Navsari	Effect of salinity stress on some biochemical and chemical attributes of fodder beet ( <i>Beta vulgaris</i> L.)	<p><b>Accepted with following suggestions:</b></p> <ul style="list-style-type: none"> <li>• Change title to “Effect of salinity stress on some biochemical and physiological attributes of fodder beet (<i>Beta vulgaris</i> L.)”.</li> <li>• Add dietary fiber comparison between two varieties of fodder beet in first objective.</li> <li>• Remove second and third objective.</li> <li>• Remove parameters for digestibility word from observations to be taken and add nitrate content and crude fibre in biochemical parameters.</li> <li>• Salinity must be adjusted in pot up to desired level only after seed germination but not before that.</li> <li>• Specify different stages of observations.</li> </ul>

<b>BBS.4.1.5</b>	Ms. Adbhai Anuja	Dr. Nilima Karmakar Assistant Professor Department of Soil science and chemistry NMCA, NAU, Navsari	Effect of saline stress on growth and yield of sugar beet ( <i>Beta vulgaris</i> L.) in relation to biochemical parameters and plant growth	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Remove second objective and add “To study effect of salinity stress on growth and yield attributes of sugar beet” as second objective.</li> <li>• Delete third objective</li> <li>• Specify the number of treatments.</li> <li>• Specify BBCH scales.</li> </ul>
<b>M.Sc. (Microbiology)</b>				
<b>BBS.4.1.6</b>	Ms. Komal Patel	Dr. B. P. Mehta Professor and Head Department of Plant Pathology ACHF, NAU, Navsari	Isolation, characterization and testing of PGPR (Plant Growth Promoting Rhizobacteria) from rhizosphere soil of Brinjal ( <i>Solanum melongena</i> L.)	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Mention treatment CRD in methodology</li> <li>• Check effect of PGPR on <i>Sclerotium</i> fungi.</li> </ul>
<b>Ph.D. (Microbiology)</b>				
<b>BBS.4.2.1</b>	Ms. Kruti Parmar	Dr. B. P. Mehta Professor and Head Department of Plant Pathology, ACHF, NAU, Navsari	Isolation, characterization and efficacy study of potash mobilizing bacteria in Maize ( <i>Zea mayze</i> L.) under South Gujarat conditions	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• In treatment T<sub>10</sub> to T<sub>12</sub>, mention KSB0+ 60 % RDK (Control), KSB0+80 % RDK (Control), KSB0+ 100 % RDK (Control) respectively.</li> <li>• Add potassium content in soil estimation in the observations.</li> </ul>

**Chairman**

Board of studies of Basic Sciences and Professor  
Dept. of Pl. Patho., ACHF, NAU, Navsari