

NAU/ACHF/PP/T-1/

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/2017

Date: 8.3.2017

To,

Director of Research and Dean PG Studies

Navsari Agricultural University,

Navsari, Gujarat

✓ **Through: Principal and Dean, ASPEE College of Horticulture & Forestry, NAU, Navsari**


Sub: Sending copies of the presentation of brief activities of different departments and proceeding of seventh Board of Studies of Basic Sciences

Sir,

With due respect and above cited subject, please find herewith copies of the presentation of brief activities of different departments, proceeding and attendance of members present during seventh Board of Studies of Basic Sciences held on 30.01.2017 at conference hall, Department of Soil Science and Agricultural Chemistry, NMCA, NAU, Navsari.

Thanking you,


Chairman


Board of studies of Basic Sciences and
Professor

Department of Plant Pathology
ASPEE College of Horticulture and Forestry
NAU, Navsari

Attachment: Proceeding of seventh Board of Studies of Basic Sciences
Attendance of members present during seventh Board of Studies of Basic Sciences
Presentation of brief activities of Dept. of Pl. Physiology
Presentation of brief activities of Dept. of Biochemistry
Presentation of brief activities of Agricultural Microbiology Cell
Presentation of brief activities of Dept. of Plant Molecular Biology and Biotechnology

Copy submitted with respect to:

P.S. to Hono'ble Vice Chancellor, NAU, Navsari

Registrar, NAU, Navsari

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

Venue: Conference Hall, Department of Soil Science and Agril. Chem., NMCA, NAU, Navsari

Date: 30.01.2017, Time: 09.30 to 16.30 hr

Chairman: Dr. C.J. Dangaria

Rapporteurs: Dr. A. V. Narwade

Dr. M. D. Khunt

The seventh meeting of Board of Studies of Basic science was held under the chairmanship of Hon. Dr. C.J. Dangaria, Honourable Vice Chancellor, N.A.U., Navsari. Meeting was started with prayer and floral welcome of dignitaries and welcome address by chairman of board of studies of Basic Science, Dr. B. P. Mehta, Professor and Head, Department of Plant Pathology, ACHF, NAU, Navsari. In his presidential speech, Hon. Vice Chancellor, Dr. C. J. Dangaria sir insisted that biotechnology student should present their synopsis of research work in Basic Science BOS as well as in crop improvement BOS if necessary. He also suggested that post graduate research should enhance critical thinking and innovative ideas in students mind and PG research must not be just mechanical in nature. He also advised that researcher must maintain skill and integrity. Director of Research and Dean PG studies, Dr. S. R. Chaudhari insisted that our focus should be on doubling income and production in Agriculture. Therefore, we need to focus on impact of climate change on agricultural productivity and its mitigation strategies through basic research on different aspect encompassing, Microbiology, Plant Physiology, Biochemistry and Biotechnology.

Action taken report of sixth Board of Studies of Basic Science was presented by convener and same was approved by chairman of the meeting, Dr. C.J. Dangaria. He advocated that students and guide must put research problems only if it is possible to carry out with University facilities and infrastructure, otherwise, expensive analysis outside the university must be avoided. 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.

In the departmental presentation of Biochemistry, Microbiology, Plant Physiology, ASABI and Biotechnology, were presented by Dr. Nilima Karmakar, Dr. M. D. Khunt, Dr. A. V. Narwade, Dr. Sanjay Jha and Dr. Diwakar Singh respectively.

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.


Chairman

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

Annexure-1

Post graduate student experimental research outlines presented in Board of Studies meeting of Basic Science discipline Biochemistry, Plant Physiology, Microbiology and Plant Molecular Biology and Biotechnology held on 30th January, 2017 at NAU, Navsari

Sr. No.	Name of the student	Name of Major Guide	Title	Suggestions
M.Sc. (Biochemistry)				
1	Mr. Udit M. Nakarni	Dr. Diwakar Singh Assistant Professor Plant Molecular Biology and Biotechnology department ACHF, NAU, Navsari	Nutritional and molecular analysis of minor millets	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> • Change title as “Nutritional and molecular analysis of finger millet (<i>Eleusine coracana</i> L.)” • Take crop finger millet (6 varieties and 4 land races) instead of six different crops • Use word “finger millet” instead of “minor millets” in objectives • Take 4 repetitions • Add phosphorus and iodine in mineral analysis
2	Ms. Kajal S. Patel	Dr. Nilima Karmakar Assistant Professor Dept. of Soil Science and Agril. Chemistry NMCA, NAU, Navsari	Biochemical screening of greater yam genotypes for quality parameters	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> • Change title as “Screening of greater yam (<i>Dioscorea alata</i> L.) genotype for quality parameters” • Mention 15 treatments • Take 3 repetitions
Ph. D. (Plant Physiology)				
3	Mr. Vivekhai N. Zinzala	Dr. A. V. Narwade Associate Professor Dept. of Plant Breeding and Genetics NMCA, NAU, Navsari	Impact of Zn applications on physio-biochemical changes and source sink pathway in rice (<i>Oryza sativa</i> L.) genotypes	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> • Change title as “Impact of Zinc applications on physio-biochemical changes and source sink pathway in <i>Kharif</i> rice (<i>Oryza sativa</i> L.) genotypes”

				<ul style="list-style-type: none"> Remove treatment F1: 0.0% Zn chelated (Control) Mention gross, net plot size and time of zinc application Mention time for sample analysis Take straw and grain yield per plot instead of per plant in observations Calculate economics
M. Sc. (Plant Physiology)				
4	Ms. Dipika S. Patel	Prof. Kirti Bardhan Assistant Professor Dept. of basic science and humanities ACHF, NAU, Navsari	Effect of potassium and moisture stress interaction on root system architecture of rice (<i>Oryza sativa</i> L.) seedling	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Change title as ‘Effect of potassium, and moisture stress interaction on root system architecture of rice (<i>Oryza sativa</i> L.) seedling’ Calculate germination per cent instead of germination rate Mention time of observation Take seedling height at 21 DAS in observation Add soil potassium analysis in observation
5	Mr. Hitesh Savaliya	Dr. A. V. Narwade Associate Professor Dept. of Plant Breeding and Genetics NMCA, NAU, Navsari	Effect of water stress on physiological, biochemical, yield and yield attributing parameters in summer mungbean (<i>Vigna radiata</i> (L). Wilczek).	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Change title as ‘Effect of water stress on physiological, biochemical and yield attributing parameters in summer mungbean (<i>Vigna radiata</i> (L). Wilczek). Take straw and grain yield per plot instead of per plant in observations Mention gross and net plot size
M. Sc. (Agril. Microbiology)				
6	Mr. Alpesh A. Bhimani	Dr. Himanshu Bhimani Associate Professor Dept. of Plant Pathology NMCA, NAU, Navsari	Isolation, screening and characterization of cellulolytic actinomycetes	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Take one sample for calcium carbonate pre-treatment and one without treatment in enrichment step Add pH 4 and 5 for pH optimization study

7	Ms. Manjushree G.	Dr. Himanshu Bhimani Associate Professor Dept. of Plant Pathology NMCA, NAU, Navsari	Isolation, screening and characterization of the cellulolytic bacteria from farm yard manure	<ul style="list-style-type: none"> Mention OFAT design instead of CRD <p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Add pH 4 for pH optimization study Mention OFAT design instead of CRD
8	Ms. Unnatikumari N. Ahir	Dr. Trupti Vyas Assistant Professor FQTL, NAU, Navsari	Exploring bacteria for chloropyriphos biodegradation	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Soil analysis of chloropyriphos before treatment required Take minimum 7 repetition and remove design Mention suitable test for statistical analysis
9	Mr. Bhavik P. Sutariya	Dr. Trupti Vyas Assistant Professor FQTL, NAU, Navsari	Effect of iron nanoparticles on plant growth and rhizospheric microbes	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Take 6 repetitions Add interveinal chlorosis in observation Mention rhizoplane bacterial count (cfu/g) in observation Approx. charge for analysis of the sample outside university is 15,000. Take prior permission of Director of Research before synopsis submission
Ph. D. (Plant Molecular Biology and Biotechnology)				
10	Mr. Kunal G. Modi	Dr. Sanjay Jha Associate Professor ASABI, NAU, Surat	Isolation and characterization of <i>Bacillus</i> consortia for plant growth promotion in rice	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Mention design and replications Add units in the observations Add no. of cfu/g in the treatment for microbial consortia Specify amount of <i>Rhizoctonia</i> for soil inoculation Take 9 treatments and 3 repetitions, RBD design Specify net and gross plot size

M. Sc. (Plant Molecular Biology and Biotechnology)

11	Mr. Havewala Noushirwan E Aadil Aadil	Dr. Sanjay Jha Associate Professor ASABI, NAU, Surat	Biochemical and molecular characterization of phenylpropanoid pathway in response to salinity in cotton (<i>Gossypium hirsutum</i> L.)	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Remove morphological and physiological analysis from observations to be recorded Take four levels of salinity: 0.8, 5, 7, and 10 ds/m Take observations at 45 and 60 DAS
12	Mr. Mukesh Chaudhari	Dr. Chintan Kapadia Assistant Professor Plant Molecular Biology and Biotechnology department ACHF, NAU, Navsari	Evaluation of th algal elicitors in imparting resistance to brinjal against bacterial wilt	<p>Accepted with following suggestions:</p> <ul style="list-style-type: none"> Change title as "Effect of algal exopolysaccharide on bacterial wilt of brinjal (<i>Solanum melongena</i> L.)" Finalize design and treatment in consultation with statistician