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Aurangabad

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Dept. of Botany

Savitribai Phule Pune University Pune

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Dept. of Botany

Savitribai Phule Pune University Pune

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Director, Patil Bee Keepers

Lead Bee Keeper of Maharashtra

Dr. Laxmikant Shinde

Senate Member

Dr. Babasaheb Ambedkar Marathwada University A'bad

NATIONAL WORKSHOP : RECENT TRENDS IN LIFE SCIENCES

CONVENER

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Head Dept. of Horticulture

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TRESURER

Shri. Rupesh Manekar

Dept. of Horticulture

Mo. 8788807351

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Shri. Avinash Shinde



Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

&

Shikshan Maharshi Dnyandeo Mohekar
Mahavidyalaya, Kalamb

Organized

NATIONAL WORKSHOP



ON

RECENT TRENDS IN LIFE SCIENCES

(PLANT TISSUE CULTURE)

16th Feb. 2019

- Principal -

Dr. S. V. Pawar

S. M. Dnyandeo Mohekar
Mahavidyalaya, Kalamb, Dist. O'bad
Phone : (02473) 262142

E-mail : smdmmkl@gmail.com
Visit us : www.mohekarcollege.org



Invitation :

Dear Friends,

It gives us an immense pleasure and honour to invite you cordially on behalf of the management, college staff, the Department of Botany to participate ONE Day National Workshop on 'Plant Tissue Culture' organized by Shikshan Maharshi Dnyandeo Mohekar Mahavidyalaya, Kalamb, Dist. Osmanabad on 16th Feb. 2019

The Institution :

Dnyan Prasarak Mandal was established in the year 1951 by Late. S. M. Dnyandeo Bhaurao Mohekar (Mohekar Guruji). Dnyan Prasarak Mandal impart quality education from Primary to Post Graduate Level to pupils of this region especially the students from backward classes.

The College :

S. M. Dnyandeo Mohekar Mahavidyalaya is a multi-faculty college established in 1969 by Dnyan Prasarak Mandal, Yermala. The foundation stone of this college was laid down by Late Dnyandeo Mohekar Guruji. The college imparts quality education in all the three faculties with five post graduate departments and three research laboratories. The college is known for academic excellence, bearing its motto 'Dnyan Deep Lau Jagi'

Location :

Kalamb is a Taluka place in District Osmanabad in Marathwada Region, situated on the bank of the River Manjra. It is well connected by road routes. It is on the State Highway 158, Barshi to Ambajogai, Kaij, Dhoki and Yermala are within 25 kms distance from Kalamb. The holy places Yermala (Yedeshwari), Ambajogai (Yogeshwari), Parli (Vaidyanath), Tuljapur (Tuljabhavani), Ter (Goroba Kaka) and Kunthalgiri (Jain Temple) are near to Kalamb.

Theme :

The goals of the workshop is to introduce teachers and students to some basic ideas, methods and tools of tissue culture techniques. some basic acquaintance with few tissue culture concepts, terms and techniques which would be of great help in understanding tissue culture for better research

Plant tissue culture is a practice used to propagate plants under sterile conditions, often to produce clones of a plant. Different techniques in plant tissue culture may offer advantages over traditional methods of propagation including –

1. The production of exact copies of plants that produce better flowers, fruits or have other desirable traits.
2. The production of multiple copies of plants in the absence of seeds or necessary pollinators to produce seeds and thus mature plants.
3. Regeneration of whole plants from plant cells.
4. Production of genetically modified plants.
5. Production of plants in sterile containers that allows them to be moved with reduced chances of transmitting diseases.

6. Production of plants from seeds that otherwise have very low chances of germination and growth.
7. Production of artificial seeds.
8. Production of haploid plants and thereby producing homozygous diploid plants.
9. To clean particular plant of viral and other infections and to quickly multiply these plants as 'cleaned stock' for horticulture and agriculture.
10. The workshop will include theory as well as hands-on lab exercises and demonstrations.

The workshop is designed to provide the same through theory sessions and lab exercises. Topics included in the workshop are Principles and applications of various facets of plant tissue culture, aseptic techniques, Basics of plant cells' requirements and media compositions, media preparations, sterilization techniques – glassware, media and plant sterilizations and observation of cultured cells.

Registration Fees :

Faculty Rs. 500/-	PG & Research Students Rs. 400/-	UG Students Rs. 200/-
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Registration : Kindly confirm your participation on or before 16 Feb 2019

Ac Name : Principal Dnyandeo Mohekar Mahavidyalaya Kalamb
Ac No. : 54406000066
Bank : Maharashtra Gramin Bank, Branch Kalamb
IFSC Code : MAHG0004406
MICR Code : 413570640

Note : Registration will be based on first come first serve basis (Only limited seats)





Department of Horticulture

S.M.D.M. Mahavidyalaya, Kalamb

Agro-Information Center (AIC)-Kalamb



Shikshan Maharshi Dnyandeo Mohekar Mahavidyalaya Kalamb

Tal. Kalamb Dist. Osmanabad

Department of Botany

(Academic Year: 2018-19)

***Activity Report of National Workshop on Recent Trends in Life Sciences
(Plant Tissue Culture)***

Title :	National Workshop on Recent Trends in Life Sciences (Plant Tissue Culture)
Date	16/02/2019
Time	10 a.m to 5 p.m
Faculty Department/	Botany
Organised By	Department of Botany and Horticulture
Coordinator Name and Faculty presented	Mrs. Mukhedkar A.R.- Convener Mr. Kawale M.R.- Co-convener Mr. Chandore H.D. – Organizing Secretary Dr. Bhosale Shrikant B. – Organizing Secretary Mr. Manekar R.S. Treasurer
Venue	Department of Botany, S.M.D. Mohekar Mahavidyalaya, Kalamb
Number of Participants	125
Total Estimation :	
Finance Management:	Collection from Registration fees from participants
Lectures delivered by:	1) Prof. Milind sardesai - - Hi-Tech practices & High Density Planting in Fruit Crops 2) Prof. Hiware Cs 3) Baravkar Practical Session by Mrs. Mukhedkar A. R. Mr. Chandore H.D. Mr. Manekar R.S. Dr. Bhosale S.B
Nature of Activity:	Academic and Extracurricular/ Environmental
Activity	1. Lecture on recent trends in life sciences, apiculture, sericulture and plant tissue culture 2. Hands on experience of plant tissue culture, apiculture, sericulture with live demonstration 3. Laboratory visit of plant tissue culture 4. Question and answer session.

Summary Report of National Workshop

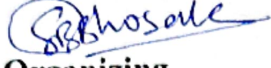
Name of the Activity:
National Level Workshop on Recent Trends in Life Sciences (Sericulture, Apiculture and Plant Tissue Culture)
Objective
<ol style="list-style-type: none">1. To make awareness about the importance and application of Sericulture, Apiculture and plant tissue culture for maintaining biodiversity2. To make awareness about the important conservation technique of medicinal plants specifically endangered plants by using plant tissue culture techniques.3. To learn various sterilization techniques, selection of ideal explants etc.4. To acquaint to the students for methods of plant tissue culture technique by doing by learning5. To solve students doubt in Sericulture, Apiculture and plant tissue culture by open question and answering session6. To learn on site advanced practices of Sericulture, Apiculture and plant tissue culture techniques.7. To get information of horticultural crops specially medicinal plant and their propagation and conservation techniques.8. To get live experience in Sericulture, Apiculture and Plant Tissue Culture9. To learn about the types of silk , and hone bees10. To learn care and handling of silkworm, honey bees and plant tissue culture materials and chemicals
Methodology
<ol style="list-style-type: none">1. Power Point Presentation2. Laboratory Visit3. Showing ideal plant materials4. Doing by learning process5. Open question and answer session
Out Come
<ol style="list-style-type: none">1. Students and participants get information of all scientific technology in Sericulture, Apiculture and plant tissue culture like selection of ideal plant for Sericulture, Apiculture and plant tissue culture, sterilisation techniques and preparation of MS media, and inoculation of plant in MS media2. This workshop aware to the students for the maintaining of biodiversity without damaging in large quantity by using plant tissue culture techniques.3. Participants get hand on experience of all methodologies of Sericulture, Apiculture and plant tissue culture.4. Participants know about the needs of Sericulture, Apiculture and plant tissue culture techniques for conservation of biodiversity and increasing farmers income.5. They get to know the importance of medicinal plants and preparation of secondary metabolites (Pharmaceutical drugs) by using plant tissue culture techniques.6. Research student get benefited by doing by learning experiences which will strengthen their research knowledge.7. They can easily understand chemicals, materials used in this technique with its handling practices.8. They can understand dos and don'ts when working in Sericulture, Apiculture and plant tissue culture laboratory.9. They on site visit of honey bee brooding chamber, sericulture rearing worms and plant tissue culture lab10. They get to know the extraction procedure of honey and collection of silk from silk worm

Topic covered under this activity

- 1) Scope and Importance of plant tissue culture
- 2) Preparation of disease free plant in plant tissue culture
- 3) Production of pharmaceutical drug in laboratory using this techniques
- 4) Preparation of ideal propagating plants
- 5) Know the hardening process of plant
- 6) Handling and extraction of honey bees and honey
- 7) rearing of silk worm


Convener

S.M.D.M.M.K

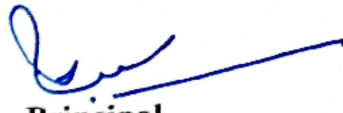

Organizing
Secretary

S.M.D.M.M.K


NAAC Coordinator

IQAC Cell

S.M.D.M.M.K


Principal

S.M.D.M.M.K

PRINCIPAL
S.M Dnyandeo Mohekar
Mahavidyalaya, Kallat



Inauguration Program of Workshop



Dr. Sardesai Milind Delivered Lecture on Recent trends in Life Science



Dr. Barvkar V.B. Delivered Lecture on Recent trends in Plant Tissue Culture



Mrs. Mukhedkar A.R. explained preparation of M.S. Media



Mr. Manekar R.S. Explaining the sterilization techniques



Dr. Bhosale S.B Explaining hardening process



Students are doing inoculation practices under laminar air flow



Observer observing our practical session

मोहेकर महाविद्यालयात राष्ट्रीय कार्यशाळा

तालुका प्रतिनिधी

कळंब : शिक्षण महर्षी ज्ञानदेव मोहेकर महाविद्यालयांमध्ये रिसेंट ट्रेन्स इन लाईफसायन्स या विषयावर प्राणीशास्त्र, वनस्पतीशास्त्र व फलोत्पादन शास्त्र या विभागाने एकदिवसीय कार्यशाळा आयोजित केली होती.

यामध्ये रेशीम उद्योग महाराष्ट्र राज्य माजी संचालक डॉ. चंद्रशेखर हिवरे यांनी तूतीलागवडविषयी माहिती दिली. तसेच तो शेतकऱ्यांना पूरक उद्योग असून तो वरदान कसा ठरू शकतो. याविषयीचे प्रात्यक्षिक करंजकल्ला या गावी घेतले. डॉ. राम चव्हाण यांनी रेशिमकिडा यावरती रोगाचा प्रादुर्भाव कसा होऊ शकतो व तो होऊ नये यासाठी शेतकऱ्यांनी कोणत्या उपाय योजना कराव्यात याविषयी मार्गदर्शन केले. वनस्पतिशास्त्र विभाग, पुणे विद्यापीठ डॉ. मिलिंद सरदेसाई यांनी वेगवेगळ्या क्षेत्रामध्ये संशोधन केलेले आहे. त्यामधील त्यांचे अनुभव विषद करताना त्यांनी सांगितले की, गांजा ह्या वनस्पतीचे अनेक औषधी उपयोग आहेत. तसेच त्यामध्ये फायबर, प्रथिने यासारखे घटक कसे उपयोगी आहेत. याची सविस्तर माहिती त्यांनी दिली. या वनस्पतीमध्ये अनेक उपयुक्त घटक उपलब्ध असूनही फक्त नशा आणणारे एक तत्व याम

ध्ये असल्यामुळे ती कशी बदनाम झाली व यातून एक सामाजिक संदेशही विद्यार्थ्यांना दिला. दिनकर पाटील यांनी मधुमक्षिका पालनविषयी माहिती देऊन मधुमक्षिका, मध, मेण व त्याचे उत्पादन कसे घेता येईल याविषयी प्रात्यक्षिकासह सांगितले. तसेच लक्ष्मीकांत शिंदे यांनी रेशीम उद्योग व मधुमक्षिकापालनातून तरुण उद्योजक कसे निर्माण होतील यावर मार्गदर्शन केले. सावित्रबाई फुले विद्यापीठ, पुणे प्रा. विठ्ठल बारवकर यांनी ऊति संवर्धनाचे महत्त्व तसेच ते शेतकऱ्यांसाठी वरदान कसे आहे याविषयीचे प्रशिक्षण दिले. या कार्यक्रमाच्या अध्यक्षस्थानी संस्थेचे सचिव डॉ. अशोकराव मोहेकर तसेच व्यासपीठावर संस्थेचे उपाध्यक्ष अंकुश पाटील महाविद्यालयाचे प्राचार्य डॉ. सुनिल पवार उपप्राचार्य प्रा. गोकुळ घोलप हे उपस्थित होते. सूत्रसंचालन प्रा. कौशल्या घोलप, प्रास्ताविक प्रा. अर्चना मुखेडकर यांनी केले. तर आभार डॉ. हेमंत भगवान यांनी मानले. या कार्यक्रमाच्या यशस्वीतेसाठी प्रा. मच्छिंद्र कावळे, डॉ. ज्ञानेश चींते, प्रा. हेमंत चांदोरे, डॉ. श्रीकांत भोसले, डॉ. जयवंत ढोले प्रा. अमित जाधव प्रा. रुपेश मानेकर, डॉ. कमलाकर जाधव व अरविंद शिंदे यांनी प्रयत्न केले. या कार्यशाळेमध्ये विविध भागातील ३०४ विद्यार्थ्यांनी सहभाग नोंदवला.