



**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 Horticulture**

**(Academic Year: 2018-19)**

***Activity Report of National Level Workshop on Recent Trends in Life Sciences (Sericulture, Apiculture and Plant Tissue Culture)***

<b>Title :</b>	National Level Workshop on Recent Trends in Life Sciences (Sericulture, Apiculture and Plant Tissue Culture)
<b>Date</b>	16/02/2019
<b>Time</b>	10 a.m to 6 p.m
<b>Faculty Department/</b>	Horticulture
<b>Organised By</b>	Department of Botany and Department of Horticulture
<b>Coordinator Name and Faculty presented</b>	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
<b>Venue</b>	Department of Botany and Plant Tissue Culture Lab, S.M.D. Mohekar Mahavidyalaya, Kalamb
<b>Number of Participants</b>	130 for Plant Tissue Culture 110 For Sericulture and Apiculture
<b>Total Estimation :</b>	80000
<b>Finance Management:</b>	Registration fees from participants
<b>Lectures delivered by:</b>	1) Dr. Hiware Chandrshekhar – Sericulture 2) Sardesai Milind. .- Recent trend sin Life Sciences 3) Mr. Dinkar Patil- Apiculture 4) Dr. Barvkar Vithhal – Recent trends in plant tissue culture 5) Prof. Mukhedkar A. R.- Preparation of MS Medium 6) Mr. Manekar R.S.- Sterilization and selection of explants 7) Dr. Bhosale S.B- Inoculation of explants in plant tissue culture media 8) Mr. Chandore H.D.- Hardening of plant tissue culture plants
<b>Nature of Activity:</b>	Academic and Extracurricular/ Environmental
<b>Activity</b>	1. Lecture on recent trends in Sericulture, Apiculture and plant tissue culture 2. Laboratory and Filed visit of Sericulture, Apiculture and plant tissue culture 3. Showing ideal selection of planting materials, Tools and equipments and sterilization technique with hands on experiences in Sericulture, Apiculture and plant tissue culture

## Summary Report of National Workshop

<b>Name of the Activity:</b>
National Level Workshop on Recent Trends in Life Sciences (Sericulture, Apiculture and Plant Tissue Culture)
<b>Objective</b>
<ol style="list-style-type: none"><li>1. To make awareness about the importance and application of Sericulture, Apiculture and plant tissue culture for maintaining biodiversity</li><li>2. To make awareness about the important conservation technique of medicinal plants specifically endangered plants by using plant tissue culture techniques.</li><li>3. To learn various sterilization techniques, selection of ideal explants etc.</li><li>4. To acquaint to the students for methods of plant tissue culture technique by doing by learning</li><li>5. To solve students doubt in Sericulture, Apiculture and plant tissue culture by open question and answering session</li><li>6. To learn on site advanced practices of Sericulture, Apiculture and plant tissue culture techniques.</li><li>7. To get information of horticultural crops specially medicinal plant and their propagation and conservation techniques.</li><li>8. To get live experience in Sericulture, Apiculture and Plant Tissue Culture</li><li>9. To learn about the types of silk , and hone bees</li><li>10. To learn care and handling of silkworm, honey bees and plant tissue culture materials and chemicals</li></ol>
<b>Methodology</b>
<ol style="list-style-type: none"><li>1. Power Point Presentation</li><li>2. Laboratory Visit</li><li>3. Showing ideal plant materials</li><li>4. Doing by learning process</li><li>5. Open question and answer session</li></ol>
<b>Out Come</b>
<ol style="list-style-type: none"><li>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 media</li><li>2. This workshop aware to the students for the maintaining of biodiversity without damaging in large quantity by using plant tissue culture techniques.</li><li>3. Participants get hand on experience of all methodologies of Sericulture, Apiculture and plant tissue culture.</li><li>4. Participants know about the needs of Sericulture, Apiculture and plant tissue culture techniques for conservation of biodiversity and increasing farmers income.</li><li>5. They get to know the importance of medicinal plants and preparation of secondary metabolites (Pharmaceutical drugs) by using plant tissue culture techniques.</li><li>6. Research student get benefited by doing by learning experiences which will strengthen their research knowledge.</li><li>7. They can easily understand chemicals, materials used in this technique with its handling practices.</li><li>8. They can understand dos and don'ts when working in Sericulture, Apiculture and plant tissue culture laboratory.</li><li>9. They on site visit of honey bee brooding chamber, sericulture rearing worms and plant tissue culture lab</li><li>10. They get to know the extraction procedure of honey and collection of silk from silk worm</li></ol>

**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

## Photography of Activity



**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**



**Farmers are gives information to the participants**



**Participants watching the rearing of silk worms**



**Participants visited mulberry plot**



**Mr. Dinkar Patil explaining honey bee details**



**Participants get hands on experience**



**Students get hands on experience**

# मोहेकर महाविद्यालयात राष्ट्रीय कार्यशाळा

तालुका प्रतिनिधी

**कळंब :** शिक्षण महर्षी ज्ञानदेव मोहेकर महाविद्यालयांमध्ये रिसेंट ट्रेड्स 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 मधुमक्षिकापालनातुन तरुण उद्योजक कसे निर्माण होतील यावर मार्गदर्शन केले. सावित्रबाई फुले विद्यापीठ, पुणे प्रा. विठ्ठल बारवकर यांनी ऊति संवर्धनाचे महत्त्व तसेच ते शेतकऱ्यासाठी 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 चीते, 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.

# Information Brochure of Workshop

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Lead Bee Keeper of Maharashtra

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Organized  
**NATIONAL WORKSHOP**



ON  
**RECENT TRENDS IN LIFE SCIENCES**  
(PLANT TISSUE CULTURE)

**16<sup>th</sup> Feb. 2019**

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