

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, PAUNI, DIST. BHANDARA
BEST PRACTICES OF THE INSTITUTION: 2019-2020

Best Practice-1

1. Title of the practice:

'PAWAN PATTERN'

2. Objective of the Practice:

Improvement of the student's performance and their overall development for building self-confidence through participatory and experimental teaching-learning process and Continuous Monitoring and Evaluation (CME) is the main focus of the institution. It is also aimed to encourage the students for organization and participation in various academic activities conducted throughout the year.

3. The Context:

The institution conducts unit tests, terminal examination and organize student's seminars as well as providing topics for the home assignments. Student's performance is continuously monitored and the associated problems are solved by the faculties. In order to develop confidence and leadership qualities, the students are involved in various academic and co-curricular activities.

4. The Practice:

Admission process is transparent and on strictly on merit basis at the entry level. Parents and the students are invited for the Principal's address for disclosing the rules and regulations, code of conduct for the students and available facilities. Departmental information and profile is presented by all the heads of departments. Librarian presented the all available library services, whereas, IQAC coordinator given the detail information about the overall progress and the strength of the institution. Activities conducted during first fortnight of the commencement of the teaching are the organization of performance test for the first semester students, providing the students the syllabus, revision of the subject knowledge of the previous examination and identification of slow and advanced learner. Students provided with the notes, question banks and the study material either in hard or soft copies. Setting of the question paper is as per the university pattern. Continuous Monitoring System includes regular conduction of internal examination and timely evaluation. Student's performance have been assessed through unit tests, surprise tests, group discussion, student's classroom seminars, assignments and ability to answer the short questions. Evaluation of all internal

examination and the assignments is carried out in schedule time and the answer sheets are returned to the students with specific remarks for improvement. Examination section organized terminal examination before the university examination. We also focused on demonstration of the practical. Workshops were also organized for competitive examination and career guidance. Subject related topics were given to the students of final year to conduct the survey and submission of report under the supervision of faculties.

For identification of slow and advanced learner, IQAC organized MCQ based performance on curriculum of qualifying examination. Extra efforts have been taken by the faculties for slow learners. The practical modules have been demonstrated by teachers during practical session and test practical examination has also been conducted. At the end of the academic session terminal exam was organized to assess the improvement students for university examinations. Various activities performed by the institution helps the students to improve their performance in university examinations.

5. Evidence of Success:

Regular monitoring and conduction of internal examinations resulted in improvement of results in university examinations. It helped in building confidence of the students in facing final examination. Personal motivation and organization of extra co-curricular activities resulted in improvement in aptitude of students and their personality development. The improvement of the result is evident from following table.

College Topper Students of Final Year (2019-20):

Sr. No.	Name of Students	Year	Group	Distinction	Percentage
1.	Mr. Darshan D. Kathane	S-2020	CBZ	CBZ	75.00%
2.	Ku. Vaishanavi D. Bhoge	S-2020	CBZ	CBZ	74.74%
3.	Mr. Ajay L. Mesharm	S-2020	PCM	PCM	73.85%
4.	Ku. Aishwarya R. Dahiwal	S-2020	CBZ	CBZ	72.37%
5.	Ku. Mansi S. Thaawakar	S-2020	PCM	PCM	71.40%
6.	Mr. Vaibhav D. Khobragade	S-2020	PCM	PCM	71.18%
7.	Ku. Pratiksha M. Patil	S-2020	PCM	PCM	70.88%
8.	Ku. Monika R. Jibhakate	S-2020	PCM	--	69.33%
9.	Ku. Yogita M. Shendre	S-2020	PCM	--	68.11%
10.	Ku. Vaishali R. Chintalwar	S-2020	PCM	--	66.81%
11.	Ku. Rucika V. Motghare	S-2020	CS	--	66.18%
12.	Ku. Niru G. Hemane	S-2020	CS	--	66.14%
13.	Mr. Pranay P. Thote	S-2020	CBZ	--	65.81%
14.	Ku. Reshma M. Lanjewar	S-2020	CBZ	--	65.59%
15.	Mr. Dnyaneshwar V. Atram	S-2020	PCM		65.37%
16.	Ku. Prachita T. Girhepunju	S-2020	PCM	--	65.22%
17.	Ku. Vaishanavi A. Fating	S-2020	PCM	--	65.18%

6. Problem Encountered and Resources Required:

Being working in rural area we encountered with

- Low transportation facility for the students residing in remote area
- Area with low industry density
- English as language barrier in communication
- Most of the students from economically could not afford the paid education and costly study material.

7. Notes (Optional):

The Pawan Pattern methodology helped in participatory and experimental teaching-learning process. The teaching-learning methodology devised by the institution has resulted in attracting the students. It has been useful in building self-confidence of the students and accountability towards the society.

Best Practice-2

1. Title of the Practice:

‘BEE WITH THE FARMERS’

2. Objective of the Practice:

1. To increase the agricultural production by providing pollination services through beekeeping.
2. Generation of employment opportunities for the youth by exploiting the rich local agricultural and forest bio resources.
3. Promotion of organic farming practices
4. Minimize application of synthetic fertilizers and the hazardous pesticides.
5. To provide the scientific information to the students and the farmers of the area through training programme on bee keeping and its related aspects

3. The Context:

The local region has rich natural resources viz. fertile soil, huge forest area, abundant water resources, varied agricultural crop pattern, however the agricultural production per unit area is very low as compared to National average. The farmers and tribal youth of this region are facing the problem in terms of employment opportunities, low economic income which leads to migration towards urban area. The adjoining area is remain underdeveloped and is recognized as low industry density area.

Rapid industrialization, indiscriminate use of pesticides, monoculture, and deforestation led to the decrease in pollination agents’ viz. insects in general and bees in specific that resulted in lowering the yield in several crops specifically oil seeds, pulses, horticultural and vegetable fruit crops. At the onset of the practice, the faculties from department of Botany and Zoology conducted the survey in two Talukas particularly Pauni and Lakhandur and intervened the farmers for various aspects regarding low productivity.

After getting acquainted with the problems, the faculties from Zoology conceived an idea for providing the scientific information to the farmers regarding the bee keeping and its usefulness in agricultural production as well as employment generation. The faculties started meeting and discussion with farmers and then collected the information of several farmers and asked them to enter in the movement of bee keeping.

It was also observed that abundantly available unused pollen and nectar resources which are the food for bees can be converted to value added products like honey, wax, pollen and propolis. The region has plenty of potential for beekeeping which again could be a tool to eradicate un-employability in local region. The knowledge which could be confined in walls of classroom could be utilized for welfare of society. By considering these facts an effort was taken by department of Zoology to bring the awareness in the masses about potentials of beekeeping. Several NGOs and government organization joined their hands in the movement and that has resulted in recognizing our institution as one of the vital center for helping the farmers in uplifting their agricultural productivity through bee keeping. Being farmer oriented, the practice has been named as “**BEE WITH FARMERS**”.

4. The Practices:

The institution is engaged in awareness, training and extension of beekeeping since last few years with the aid of different agencies in rural area of Bhandara district and other parts of Vidarbha region. The institution as a center of resources and expertise engaged in following activities.

1. **Assistance for Beekeeping:** Institution provided the technical assistance and resource persons for beekeeping training programme organized for the farmers on handling, maintenance of the bee colonies and harvesting honey.
2. **Organization of seminars:** National Seminar on Conservation of Honeybees organized by the institution in collaboration with different academic institutions and government organization, KVIC to bring awareness about beekeeping among students, farmers and researchers.
3. **Procuring financial assistance from NGO and government organization:** The institution also helps the farmers for the receipt of financial assistance from different NGO's and government organization, KVIC.
4. **Providing colonies of bee to the farmers:** Colonies of bee was also provided by the college to the farmers whenever required.
5. **Organization of awareness workshops:** The institution has organized one day awareness workshop importance of bee keeping.

5. Evidence of Success:

The farmer centric practice employed by the institution has been recognized in short period that resulted in enhancement in number of farmers joining the mass movement. The concerned faculties of the institution received demand from the farmers for the procurement of honey colonies. Other academic institutions have also invited our expert faculty for the seminars and workshops. We received overwhelming response from the farmers and youth as they noted the enhancement in agricultural production of several crops that resulted in enhancement in their agricultural income at the cost of minimum capital investment. Majority of the farmers started beekeeping in their fields. Farmers

have also started extracting the naturel honey and selling it in market. The academicians and college teachers from other institution have also been invited for participating in the seminars organized by the institution. Institutional potential has been recognized by KVIC and recommended to submit the proposal on Cluster Development under SFURTI programme of MSME. Accordingly, the proposal of initial outlay of sum of Rs. 2.5 crore has been submitted and in pipeline. The movement is supported by various NGOs and the government organizations too. Two of the research students are also working for obtaining Ph.D. degree on collaborative efforts of Botany and Zoology.

Department of Zoology engaged in following activities:

1. Organization of workshop and seminars
2. Frequent interaction with farmers
3. Collection of data
4. Sharing the useful outcome of the results obtained through experimentation
5. Assistance for Beekeeping

Throughout the year department of Zoology of college is involved in following activities regarding the 'Bees with the Farmers' programme.

Table: Different Bee-keeping/ Training Programs Organized by Institution (2019-20)

Year	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	23-27 Aug, 2019	5 Days	Beekeeping Training Programme	Training on Beekeeping	25
2019	13/10/2019	1 Day	Distribution of Honey Bee Boxes	Aid to farmers	25
2019	07/12/2019	1 Day	Workshop on Beekeeping at Village Kesori	Training on Beekeeping	80

6. Problem Encountered and Resources Required:

- Population of the area belongs to low income group and hence cannot afford the cost of bee hives
- Educational and social backwardness and sticking to the traditional farming practices is the main barrier
- Availability of infrastructure for set up

7. Important to Note (Optional):

Two research scholars are working on related aspects of bee keeping under the guidance of faculties from Botany and Zoology. The scientific data obtained on various yield related parameters is found useful in sharing with the farmers. The practice is recognized by KVIC and assured to provide financial support for making it as a mass movement.



Bee hive kept in bitter guard field for pollination



Dr. C.P. Kapse, Director KVIC addressing during inauguration of 5 day training program on beekeeping



Guest Lecture on Beekeeping Prospectus delivered by Dr. H. R. Bhargava, Associate Prof. Garden City University, Bangalore



Dr. S.K. Raina, International Advisor, RTM Nagpur University delivering key note during National Seminar on Conservation of Honey bees



Farmers with Bee hives and beekeeping equipment sponsored by KVIC under Honey Mission

मधमाशी पालनातून आर्थिक संपन्नता वाढवा

एच. आर. भार्गवा : पवनी येथे लाभार्थ्यांना साहित्याचे वितरण

लोकमत न्यूज नेटवर्क

पवनी : शेतकरी समृद्ध व्हावा यासाठी त्याला उत्पन्न वाढ व पुरक व्यवसायाची गरज आहे. मधमाशी पालन करून दोन्ही हेतू साध्य होऊ शकतात. त्यामुळे शेतकऱ्यांनी मधमाशी पालन करून आर्थिक संपन्नता वाढवावी असे प्रतिपादन प्रा. डॉ. एच. आर. भार्गवा यांनी केले.

श्री शिवाजी शिक्षण संस्था अमरावती द्वारा संचालित विज्ञान महाविद्यालय पवनी येथे २५० मधमाशांच्या वसाहती आणि मधमाशी पालन करण्यासाठी



पवनी येथे लाभार्थ्यांना साहित्याचे वाटप करण्यात आले तो क्षण.

लागणाऱ्या साहित्याचे वाटप करण्यात आले. खादी ग्रामोद्योग आयोग व विज्ञान महाविद्यालय पवनी च्या संयुक्त विद्यमाने आयोजित केलेल्या कार्यक्रमात खादी आणि ग्रामोद्योग

उपसंचालक विलास लाडे, प्रा. डॉ. एच. आर. भार्गवा बॅंगलोर व अन्य अतिथींच्या हस्ते हस्ते मधमाशी वसाहती व मधमाशी पालन चे साहित्य लाभार्थी शेतकऱ्यांना वाटप

करण्यात आले. केंद्र सरकारद्वारा मे हनी मिशन अंतर्गत, मास्टर ट्रे पुरुषोत्तम गेंडाम यांनी लाभार्थ्यांना मधमाशी पालन प्रशिक्षण दिले होते. प्रशिक्षणा शेतकरी यांना प्रमाणपत्राचे वित्त करण्यात आले. या कार्यक्रमात निमित्ताने सुमारे १३ लाख रुपये अनुदान शेतकऱ्यांना मिळाले असे ! श्री एस रहिले यांनी सांगितले. ह मिशन चे नोडल अधिकारी वि. ठाकरे यांचे उपस्थित होते. लाभ शेतकरी रमेश पारधी यांनी मनो व्यक्त केले. प्रा. बी. एस. रहिले या प्रास्ताविक व आभार मानले.

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सी.पी. कापसे : पवनी येथे मधुमक्षिका पालन प्रशिक्षण शिबिर, शास्त्रज्ञांची उपस्थिती

मानवाच्या अस्तित्वासाठी मधमाशी संवर्धनाची गरज

लोकमत न्यूज नेटवर्क

विरली (बु.) : विविध कारणांमुळे निसर्गातील मधमाशांचे अस्तित्व धोक्यात आले आहे. परिणामी अनेक पिकांवर याचा विपरीत परिणाम होत आहे. अनेक भागात पिकांची झाडे जोमदार असूनही परागसिंचनाअभावी या पिकांना फळधारणा होत नसल्याचे दिसून येते. मानवाची अन्नधान्याची गरज पूर्ण करण्याची क्षमता केवळ मधमाशीमध्ये आहे. त्यामुळे मानवाच्या अस्तित्वासाठी मधमाशांचे संगोपन आणि संवर्धन आवश्यक असल्याचे प्रतिपादन खादी व ग्रामोद्योग आयोगाचे संचालक डॉ. सी.पी. कापसे यांनी केले.

विज्ञान महाविद्यालय पवनी येथे आयोजित मधमाशीपालन प्रशिक्षण शिबिराच्या समारोपीय कार्यक्रमात योलत होते. कार्यक्रमाच्या अध्यक्षस्थानी विज्ञान महाविद्यालयाचे प्राचार्य विजय लेपसे तर प्रमुख अतिथी म्हणून खादी व ग्रामोद्योग आयोगाचे उपसंचालक विलास लाडे, महाविद्यालयाच्या प्राणीशास्त्र



मार्गदर्शन करताना डॉ. सी.पी. कापसे उपस्थित विजय लेपसे, विलास लाडे, डॉ. के.बी. नगनाईक, डॉ. ए.के. अने.

विभागाचे प्रमुख डॉ. के.वी. नगनाईक, जनसंपर्कशास्त्र विभागाचे प्रमुख डॉ. ए.के. अणे आदी प्राध्यापने उपस्थित होते.

डॉ. कापसे पुढे म्हणाले की, मधमाशीपालनात येोजगारीवर मात करण्याची प्रचंड क्षमता आहे. मधमाशांच्या वसाहतीचे विभाजन मध संकलन, रॉयल जेड्रो उत्पादन, परागकण संकलन आणि विविध रोजगारनिर्मितीचे मार्ग या व्यवसायात उपलब्ध आहेत. त्यामुळे शेतकऱ्यांनी मधमाशीपालन करून आपल्या पिकांच्या उत्पादनासाठीयतच इतर

मार्गांनीही आत्मनिर्भर व्हावे, असे आवाहन केले.

भारत सरकारच्या 'हनी मिशन' अंतर्गत खादी व ग्रामोद्योग आयोग नागपूर आणि विज्ञान महाविद्यालय पवनी यांच्या संयुक्त विद्यमाने या पाच दिवसीय मधमाशीपालन प्रशिक्षण शिबिराचे आयोजन करण्यात आले. या शिबिरात भंडारा, गोंदिया, नागपूर, चंद्रपूर आणि वर्धा जिल्हातील २५ शेतकरी सहभागी झाले होते. या प्रशिक्षण शिबिरात प्रा. पी.ए. गेंडाम, एस.व्ही. गुढे, व्ही.के. ठाकरे यांनी मधमाशांचे जीवनचक्र, ऋतुमानानुसार

त्याचप्रमाणे शिबिरादरम्यान अर्जु मोर येथील प्रगतीशील शेतकरी दा फुंडे यांच्या सॅट्रीय शोती प्रकल्पाला देवून शेतकऱ्यांनी सॅट्रीय शोती वारकावे समजून घेतले. यावेळी शेतकऱ्यांनी सॅट्रीय भाजीपाला आ उत्पादनातून वनविलेल्या भोजना आस्वाद घेतला.

समारोपीय कार्यक्रमात खा ग्रामोद्योगचे उपसंचालक विला लाडे, प्राचार्य विजय लेपसे यांनी मार्गदर्शन केले. यावेळी प्रशिक्षणा शेतकरी डॉ. रमेश पारधी, भुपरा शहारे, खेहल मयके यां प्रशिक्षणाविषयी आपले मनोगत व्य केले. या प्रशिक्षण शिबिरातील प्रशिक्षणाध्यक्षां प्रत्येकी द मधमाशी संगोपन पेट्या मिळण असून विज्ञान महाविद्यालयाचे पुढाकारामुळे खादी व ग्रामोद्य आयोगाच्या माध्यमातून शेतकऱ्यांना संगोपन पेट्यांचेर सु १२ लाख रुपयांचे अनुदान मिळण आहे. संचालन प्रा. डॉ. वी.एस. रहि यांनी केले. प्रा. के.वी. नगनाई यांनी उपस्थितांचे आभार मानले.

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