

A.G & S.G Siddhartha Degree College of Arts & Science Vuyyuru

Department of Zoology

National Level Workshop on Beekeeping

19.01.2021

REPORT

Scope of Workshop

The scope of beekeeping for pollination in India: Total area of bee-dependent crops in India is around 55 million hectares. Two hundred million colonies are needed to meet this, at the rate of 3-4 colonies per hectare. The country has rich and diversity of flora which ensures quality pollen and nectar to honey bees.

Bee keeping business is profitable and also environmental friendly. More than this, it is interesting and enjoyable. Few additional benefits are listed as under:

1. Bees are primarily important for pollination. They are known to increase the crop yields by 25 percent easily. Hence, going for bee keeping business is like serving the society by adding food availability.
2. Honey itself is a healthy natural food. Also, it is a useful medicine for variety of ailments. Honey production is thus a service to society.
3. Royal jelly, pollen, bee wax are some other priced bee products.
4. Like other product production units, bee keeping is not adding to environmental pollution.

Objectives of the Workshop

1. "To establish areas of conservation throughout the island for the conservation of the native Irish honey bee."

2. "To promote the formation of Bee Improvement groups."

3. "To provide education on Bee improvement and awareness to the public of the values of the native Irish honey bee."

4. "To act in an advisory capacity to groups and individuals who wish to promote the native Irish honey bee."

Registration Form

Name: _____
 Designation: _____
 College/Institution: _____
 Address: _____
 Contact Number: _____
 E-Mail id: _____

Registration Fee

D.D.No: _____ Date: _____
 Name of the Bank: _____
 Area of the Bank: _____
 Accommodation required: YES / NO

Note: Spot registration is also available

Organizing Committee Members

M.L.Priyanaka, 8686533693
K.Padmasia, 6303311290

One Day National Level Workshop

On

"Beekeeping"

Date: 19/01/2021.



Organized by

Department of Zoology (U.G)

A.G. & S.G. Siddhartha Degree College of Arts & Science (Autonomous), Vuyyuru-511165.
 Re-accredited with Grade "A" by NAAC with CGPA 3.05/4.00.

Venue

Seminar Hall

Convener and Organizing Secretary

D.A.Kiranmayee, 9505861799
 Head of Zoology Department.

About the College

The college started functioning with Rs. 26,00,000/- as an initial fund with 143 students in B.A., B.Com and B.Sc. (T.M). Today its strength grew to 1164. In response to the growing educational needs of the community in and around Vuyyuru, another B.Sc. section in English medium was started during 1980-81. The college was admitted to grant-in-aid from 01-06-1981. In May 2001, the Management of K.C.P.S & I.C Ltd. handed over the college to the management of Siddhartha Academy of General & Technical Education, Vijayawada which had ample experience in running many educational institutions for better maintenance. The Academy rechristened the college as A.G & S.G Siddhartha College of Arts and Science.

About the Department of Zoology

The Department of Zoology is one of the oldest Departments of AG & SG Siddhartha Degree College of Arts & Science. Being established in 1975, it had the rare privilege of becoming the first Science Department of the College. It started academic instructions at the

Under Graduate level Zoology as major subject for undergraduate Programme of the **Nagaduna** University. The College is now affiliated to the **Krishna University, Machilipatnam**. Later the Department offered Undergraduate Programme **B.Sc Zoology**, Botany and Chemistry. The Programme was modeled on the Annual Evaluation System and the instruction was tailored to address the learning objectives defined in the syllabus. With the introduction of Choice Based Credit System the Department moved to more flexible and innovative space in terms of the form and content of the Programme. The new Programme is structured on Semester basis which runs through 3 years from the entry level. In addition to the affiliated Regular Programme the Department offers Certificate Course

After the college opted for Autonomous System in 2012, the department has started the restructured Programme in Aquaculture with Botany and chemistry combination form the academic year 2019-2020.

Resource Person

K.China Babu: M.A.B.Ed
 Assistant Professor, Vuyyuru (MD)
 Krishna (Dist).

Chairman

Sci. Dr. D.Bala Krishna,
 Principal, AG & S.G. Degree College
 (Autonomous), Vuyyuru.

Co-Chairman

Sri K. Satyanarayana,
 S.O, AG & S.G Degree College
 (Autonomous), Vuyyuru

Executive Committee Members

Dr. K. Venkateswarlu IQAC Co-Ordinator
Smt. T. Padmasia Superintendent

Student Co-Ordinators

N. Jaya Chandra Manasa
M. Hindu priya
D. Purni
V. Sukumar
S. Radha krishna
K. Mohan srinivas
K. Yedukondalu

Registration Fee Only for Offline.

For Students: Rs.50/-

For Faculty: Rs.100/-

Note: - No Registration Fee for Online.

Webinar Platform: Zoom Meet

E-Certificate will be issued to the successful participants.

A.G & S.G Siddhartha Degree College of Arts & Science, Vuyyuru

DEPARTMENT OF ZOOLOGY

One day National Level Workshop on Sustainable Aquaculture Management

19.01.2021

Program Sheet

Inauguration

10.00AM: Inviting the Guests on to the dais by III B.Sc. BZC students

10.05: Prayer by M. Swathi II BZC

10.10 AM: Lighting the Lamp

10.15 AM: Presidents Opening Remarks by Dr. D. Balakrishna, Principal

10.20 AM: Address by Sri. K. Satyanarayana Special Officer AG & SG Siddhartha College

10.25 AM: Introduction of Workshop by D. A. Kiranmayee HOD Zoology

10.30-11.00 AM: Address by Chief Guest by G. J. Vinay Kumar, Director, AG& SG Inter College

Tea Break: 11.00 to 11.15. AM

Session I&II-11.15-1.15 PM: Sri. K. Chinna Babu M. A

Lunch break: 1.15- 2.15

Session III&IV 2.15- 4.15 Practical on Bee Keeping

4.15 -5.00 PM: Valedictory Function

A.G & S.G Siddhartha Degree College of Arts & Science, Vuyyuru

DEPARTMENT OF ZOOLOGY

One day National Level Workshop on Sustainable Aquaculture Management

19.01.2021

REPORT

Honey is a very complex matrix due to the presence of several chemical classes of compounds Viz. sugars, enzymes (Diastase and Invertase), organic acids (Gluconic acid, Acetic acid, etc.), vitamins, volatile chemicals, phenolic acids, flavonoids and minerals in a very large range of concentrations. The absence of uni floral honey in the Indian market has also complicated the various quality aspects related to honey. The processing of honey requires the minimum equipment but it is an important step to control the quality of honey. Somehow, the process of crystallization is also dependent on the processing of the honey. The extraction and processing of honey done by the beekeepers at farm level still needs a lot of improvement from the equipment and hygiene point of view.

Keeping in view the importance of beekeeping and to achieve the goal of “Sweet Revolution” the Department of Zoology has organized One Day National Workshop was organized on 19.01.2021.

Objectives:

- a. Promoting holistic growth of beekeeping industry for income & employment generation, providing livelihood support to farm and non-farm households and to enhance agriculture/ horticulture production.
- b. Developing additional infrastructural facilities for developing quality nucleus stock of honeybees, multiplication of stock by bee breeders, setting up of disease diagnostic lab.
- c. Empowerment of Women through Beekeeping
- d. To maximize, economic, ecological and social benefits by diversification through beekeeping by production of higher quantity and good quality of honey and other high value beehive products, viz.; bee wax, bee pollen, propolis, royal jelly, comb honey bee.

Inaugural session:

Dr. D. Balakrishna Principal of the College was the chief guest and Key note speaker for Inaugural session. Sri., K. Satyanarayana special officer of the college, Sri. G. J.V. Vinay Kumar, Director of Siddhartha Junior College and Sri. Naga Prasad, Head Department of Computers are the invited Guests for the workshop.

The Key note address was given by Dr. D. Balakrishna, Principal of the College. He enlightened the students with the importance of honey and other products of honey bee. He mentioned the following points in his speech

Beekeeping is one of the oldest traditions in India for collecting the honey. Honey became popular due its market demand in National and International markets. Beekeeping also help to increase agriculture productivity through pollination. Honeybees in addition to producing honey, bee wax and royal jelly is also produced,

thus giving additional benefits to the farmers. After successive losses in traditionally grown crops, farmers are inclining towards bee farming. In order to maximize agricultural production, honeybee can be used as an important input agent.

Technical session I &II

Resource person – Name & Designation: - K.China Babu; M.A.,B.Ed

Anandapuram,Vuyyuru

K.China Babu started the technical session with a brief history on Biology of Honey bees. He explained about the beneficial honey bee products like Bee Pollen, Beeswax, Propolis, Royal Jelly and Bee venom. These products are collectively called BEE PRODUCTS which are applied in medicinal industry. He said that all honey bee products are significant for various health benefits. In addition, recent studies have proved its effectiveness for human health and diseases. In the near future, these honey bee products have the potential chance to be available as pharmaceutical products. He also told about requirement of quality of beehives and equipment's/tools for starting apiculture. Simultaneously he described the methods of producing queen bees. He stated that the queen bees produce queens under three conditions: early, supersede and emergency. It has become necessary for scientific beekeeping to prepare many queens in advance, as soon as a queen appears mature, weak or ill, then the queen bee can be given to that offspring immediately.

In the afternoon technical session is conducted to the student. They were shown practical management of apiary and processing of honey. He practically showed the participants about

Handling of beehive

BEE hive Nutrition

Movement of bees

At the end of the training session the students learned about

- Handling of beehives
- Feeding beehives
- Beehive nutrition
- Movement of beehives
- Location site needs at different times of the year
- Operation and maintenance of machinery
- Observing business management and taught pricing of honey on the market and pollination contracts dealing with fluctuating prices.

Valedictory Session:

The valedictory function was held at 5.00 Pm on 19.01.2021

The principal of the College Dr. D. Bala Krishna was the Chief Guest for the session. All the participants were given participation certificates by the chief guest. He mentioned that through this Workshop the participants could acquire the knowledge of Bees Maintenance, their products and by products for utilization of mankind. In his remarks he urged the participants to become self employed by using this knowledge.

The work shop was well covered by the electronic media and various local newspapers. Approximately 150 candidates (Students, Research scalars, Faculty) have been registered and participated and e-certificates & offline certificates were distributed.

Conclusion:

Empowerment of Women through Beekeeping.

To maximize, economic, ecological and social benefits by diversification through beekeeping by production of higher quantity and good quality of honey and other high value beehive products, viz.; bee wax, bee pollen, propolis, royal jelly, comb honey, bee venom, etc. for domestic and export market;

To strengthen beekeepers by developing institutional framework through collective approach viz.; formation of SHGs/ FPOs/ Beekeepers Cooperatives/ Federations, etc.

Albert EinsteinQuote:

***If the bees disappeared from the surface of the globe the man would only have four years of life left. No more bees, no more pollination, no more plants, no more animals, no more man”.



K. China Babu M.A.B. Ed at the Technical Session



K. China Babu M.A.B. Ed interacting with students



Felicitation to K. China Babu M.A.B. Ed



Distribution of Certificates to Participants

Paper Clippings

