

ST. JOSEPH'S
COLLEGE, MOOLAMATTOM
ARAKULAM P.O- 685591, IDUKKI, KERALA



2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tools including online resources for effective teaching and learning process

APICULTURE





APICULTURE/BEEKEEPING

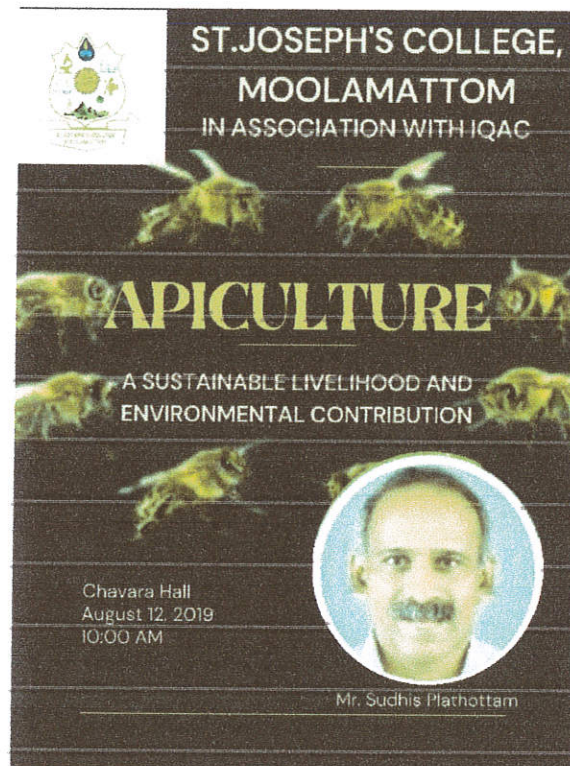
Bees are one of the many insects in the world that can produce something that is beneficial to all of us. We obtain honey from these bees which is an important food for human beings. Apiculture is the scientific method of rearing honeybees. Apiculture/beekeeping is the care and management of honey bees for the production of honey and wax. Beekeeping is an important activity since honey is used for treating several diseases, and it is an antioxidant. Apiaries are set up in college premises where there are sufficient bee pastures abundant with flowering plants. This activity instils the value of environmental preservation and sustainable way of life among students.

The Courses on Environmental Sustainability and Human Rights as included in the fifth semester of every U. G. Programme are taught through 'Apiculture' .

Seminar Report

2019-2020

Beekeeping a Sustainable Livelihood and Environmental Contribution



Seminar by Sudhis Plathottam on 12-08-2019

Topic:- Beekeeping a Sustainable Livelihood and Environmental Contribution

Speaker- Mr. Sudhis Plathottam, M.A. M.Phil.

Number of participants - 62

Keekeeping a Sustainable Livelihood and Environmental Contribution

Seminar by Sudhis plathottam on 12-08 -2019

Beekeeping has enormous promise for both environmental preservation and a sustainable way of life. These tiny animals called bees have a huge impact on the economy, the environment, and our way of life. We explore the wonders and prospects that the field of apiculture offers to undergraduate and graduate students, particularly in the picturesque area of Idukki, Kerala. As the principal pollinators, bees are essential to preserving the ecological equilibrium. They are in charge of pollinating flowers,

which makes fruits, nuts, and vegetables possible. These buzzing insects have a complex relationship with the diversity of plants and animals. It is essential to comprehend their significance as guardians of the environment as well as honey producers.

A prospective source of income is beekeeping in Kerala, a state rich in biodiversity. High-quality honey production can present chances for economic growth for both people and communities. The advantages go beyond only honey; propolis, royal jelly, and beeswax are also valuable commercially. Furthermore, a variety of industries and health supplements might benefit from by-products like pollen. The worrying decline in bee populations worldwide coincides with concerns about climate change. By starting a beehive, we protect these vital pollinators while also supporting ecological sustainability. Bees that are raised on native plants provide honey and contribute to the preservation of regional ecosystems.

In the classroom, beekeeping offers students a hands-on learning opportunity that integrates theory and application. It develops critical thinking skills, entrepreneurship, and a deep understanding of environmental stewardship. Beekeeping can inspire creative thinking and research in the fields of biology, agriculture, and sustainability studies when it is included into educational initiatives. The purpose of collaborative efforts, financial support, and educational activities is to foster a culture of ethical beekeeping and ecological awareness.

Conclusion

Beekeeping is about more than just collecting honey; it's also about supporting economic development, environmental sustainability, and the health of ecosystems. It offers students a fantastic chance to pursue a fulfilling, purposeful, and ecologically responsible career.

Report

Beekeeping- A Sustainable Livelihood and Environmental Contribution

Topic: "Beekeeping: A Sustainable Livelihood and Environmental Contribution"

The lecture "Beekeeping: A Sustainable Livelihood and Environmental Contribution" given by Sudhis Plathottam covered all the aspects of beekeeping's relevance. The emphasis was on emphasizing its contribution to environmental preservation, sustainable livelihoods, and educational programme integration. Bees are important pollinators that maintain the ecological balance and foster the development of a wide range of plants and animals. Economic Potential: The production of premium honey and other worthwhile byproducts makes beekeeping a profitable endeavor. In Kerala: Because of the state's abundant biodiversity, beekeeping appears to be a promising source of income, producing not just honey but also other important goods like propolis, royal jelly, and beeswax.

The industry includes a variety of commercially valuable by-products in addition to honey. Beekeeping is essential for maintaining these key pollinators and guaranteeing ecological sustainability, as bee

populations around the world are declining as a result of climate change. Promoting the development of indigenous flora helps preserve regional ecosystems in addition to assisting with honey production. Including beekeeping in academic instruction fosters entrepreneurial, problem-solving, and environmental stewardship abilities.



Taking the class on beekeeping

Research and innovation in a variety of sectors, including as agriculture, biology, and sustainability studies, are stimulated by the inclusion of beekeeping in educational programs. According to Sudhis Plathottam, beekeeping is a way to support environmental sustainability, stimulate economic growth, and support ecosystems in addition to producing honey. The purpose of the seminar was to introduce attendees to the world of beekeeping and to urge them to learn, contribute, and get involved in creating a sustainable future.


Participant List

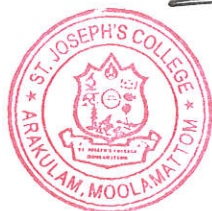
Number	Name	Department
1	MERLIN M	B.Sc Mathematics
2	MARIA BABY	B.Sc Chemistry
3	ALEENA JOHNSON	B.Sc Chemistry
4	ANJALI KRISHNA M.S	B.Sc Chemistry
5	ATHIRA SASI	B.Sc Chemistry
6	MALU BIJU	B.Sc Chemistry
7	ANSALNA K SIDDHIC	B.Sc Chemistry
8	BIBIN K JOHNSON	B.Sc Chemistry
9	ANAGHA JAYAN	BA English (V)
10	DIVYA CHANDRAN	BA English (V)
11	JOBINS REJI	B.Sc Physics (V)
12	BINITHA BIJU	B.Sc Physics (V)
13	PARVATHY P.S	B.Sc Physics (V)
14	SREELAKSHMI VENUGOPAL	B.Sc Physics (V)
15	ABRAHAM C JOHN	B.Sc Physics (V)
16	LAKSHMIKRISHNA SANJAY	B.Sc Physics (V)
17	AJMALSHAH P.K	B.Sc Physics (V)
18	DEVIN JOSEPH	BA Economics
19	BHAVYA SIVAN	BA Economics
20	SAFUVATH ASSIS	BA Economics
21	SARANGA K RAJAN	BA Economics
22	ASWIN P BIJU	BA Economics
23	ALEENA BABY	BA Economics
24	ASHBIN SHAJI	BA Economics
25	BHAVITHALAKSHMI T.M	BA Economics
26	ANUSHA NAVAS	BA Economics
27	JOPHY JOHNY	BA Economics
28	NITHU M	BA Economics
29	TONY WILSON	BA Economics
30	ANN MARIYA JOSE	BA Economics
31	ARIFA NAZEER	BA Economics
32	ANJU THANKACHAN	B.Sc Chemistry
33	GAGANA LAL	B.Sc Chemistry
34	BHAVANA S RAJ	B.Sc Chemistry
35	BEEMAMOL SHAJAHAN	B.Sc Chemistry
36	FARSANA P .S	B.Sc Chemistry
37	DHANU K JOSEPH	B.Sc Chemistry
38	ALEENA BINU	B.Sc Chemistry
39	ABIL ULLAS	B.Sc Chemistry

40	JESWIN GEORGE	B.Sc Chemistry
41	BIBIN MICHAEL	B.Sc Chemistry
42	ATHULKRISHNA M	B.Sc Chemistry
43	DHARSHANA DAS	BBM
44	KRISHNAPRIYA SHAJI	BBM
45	MILKA SHIBU	BBM
46	NIMMY AJI	BBM
47	SREELAKSHMI T.S	BBM
48	SOORYANARAYANAN S V	BBM
49	AJMALSHA K MOOSA	BBM
50	SONA ASHARAF	BBM
51	JAIDEN GILL N.J	BBM
52	ABI J CHALIL	BBM
53	SREEDEVI S	BBM
54	NIYAMOL V	BBM
55	ALEENA BIJU	BBM
56	SURYA BENNY	BBM
57	BEEMA BASHEER	BA English (V)
58	BLESSY SIBY	BA English (V)
59	BEEMAMOL C. A	BA English (V)
60	ABHAI SANTHOSH	BA English (V)
61	ALPHY JOSE	BA English (V)
62	MANEESH SHAJI	BA English (V)

Outcome

The lecture was effective in emphasizing the vital role that beekeeping plays in economic growth, environmental preservation, and educational integration. Participants were inspired to think at beekeeping as a means of making a positive impact on a more sustainable world, rather than just as a career. It highlights the importance of beekeeping for environmental preservation, sustainable livelihoods, and educational integration.

Coordinator
 Prince J. Mathew




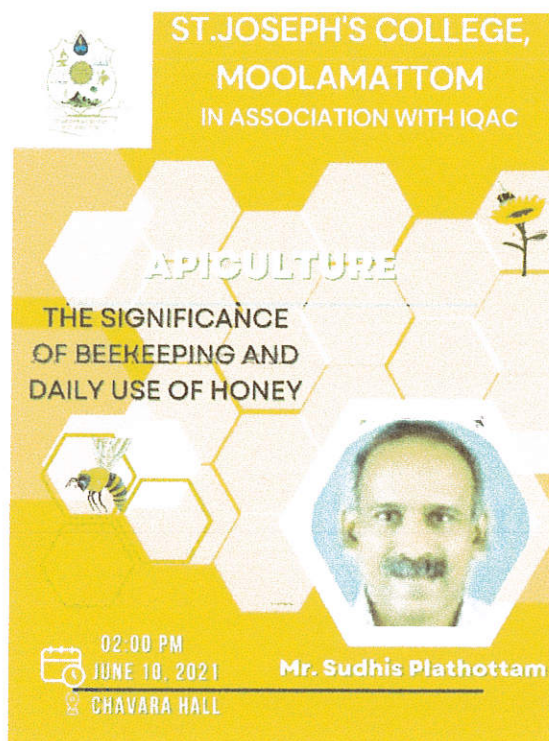


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Seminar Report

2021-2022

The Significance of Beekeeping and Daily Use of Honey



Seminar by Sudhis Plathottam on 10-06 -2021

Topic:- The Significance of Beekeeping and Daily Use of Honey

Speaker- Mr. Sudhis Plathottam, M.A. M.Phil.

Number of participants 71

Summary of the talk

Together with discussing the useful applications of honey in daily life, we'll delve into the intriguing world of beekeeping. It gives me great pleasure to talk about the significance of beekeeping, especially in a place like Kerala where biodiversity and a rich cultural past are well-known. Bees are extremely significant to our planet, despite their little size. They contribute significantly to crop development and biodiversity through their function in the pollination process. Bees, despite their diminutive size, have a significant impact on agriculture, food production, and environmental balance. The agricultural and cultural traditions of Kerala are deeply linked to the long-standing practice of beekeeping.

It is the ideal habitat for a vast array of bee species due to its diverse vegetation and mild environment. In addition to boosting the local economy, beekeeping in Kerala helps to protect the area's fragile ecology. Bees produce golden nectar called honey, which is more than simply a natural sweetener. It has amazing health advantages. Honey is a multipurpose substance that has been used for generations in daily life. It may be used to increase immunity, heal wounds, and give energy.

Every area, even the kitchen and medicine cupboards, is home to honey. It's not just a tasty spread; it can also be an ingredient in cosmetics, an energy enhancer, a natural preservative, and a remedy for sore throats. Beyond just its sweetness, honey has several nutritional benefits. Its nutrients, enzymes, and antioxidants make it a more wholesome choice than refined sugar. The beekeepers are the unsung heroes. Their dedication ensures the continued production of honey, the well-being of bee colonies, and the conservation of these vital pollinators. Beekeeping offers students a variety of opportunities to make a difference in the world. Bee and environmental conservation can be supported in a number of ways, such as through entrepreneurship, research, and the encouragement of sustainable lifestyles.

Conclusion

Seminar made clear how vital beekeeping is and how versatile honey is in everyday life. Let's pay tribute to these tiny wonders and consider strategies for preserving the environment and bee populations. Remind yourself to respect and care for the incredible bees, and consider how we may help ensure their survival.



Mr. Sudhis Plathottam, M.A., M.Phil. is taking the class on beekeeping

Report

The Significance of Beekeeping and Daily Use of Honey - June 10, 2021

On June 10, 2021, Sudhis Plathottam gave a fascinating talk that explored the crucial facets of beekeeping and emphasized the regular significance of honey in our lives. The importance of beekeeping was underlined at the event, especially in Kerala, a state renowned for its abundant biodiversity and rich cultural legacy. The sometimes underestimated importance of bees in our ecosystem was highlighted by Sudhis. Bees are essential to pollination and have a significant positive impact on crop growth and biodiversity. Bees have an impact on agriculture, food production, and environmental balance that goes well beyond their small size. The symposium focused on Kerala's ancient beekeeping customs, which are deeply ingrained in the state's agriculture and culture. The region's diverse flora and favorable climatic conditions make it an ideal habitat for various bee species. Beekeeping in Kerala not only contributes to the local economy but also aids in preserving the delicate ecosystem.

Health Benefits of Honey

Sudhis illuminated honey's many uses in addition to its use as a natural sweetener. Honey has a plethora of amazing health advantages, like enhancing immunity, mending wounds, and giving you energy. Its many uses include those in cooking, medicine, cosmetics, and other industries. The lecture focused on the fact that honey is a rich source of nutrients in addition to being a sweetener. Because it has minerals, enzymes, and antioxidants, it's a healthier option than refined sugar. The Beekeeper's Role Beekeepers were recognized by Sudhis as unsung heroes. Their commitment maintains honey production, protects bee colonies, and aids in the preservation of these important pollinators. The session focused on ways that students could support sustainable behaviors, business, and research in order to contribute to bee conservation.

At the seminar's Sudhis Plathottam emphasized the importance of understanding the role that beekeeping plays in our lives as well as the incredibly versatile nature of honey. Recognizing the value of protecting and cherishing these little marvels, the audience was urged to support bee populations and the environment.

Participants list

Number	name	Department
1	JITHIN BABY	BBM
2	AYOONA AJI	BBM
3	AMALU MATHEW	BBM
4	K.S SHAHUL HAMEED	BBM
5	DURGA INDRAJITH	BBM
6	BHADRA INDRAJITH	BBM
7	MAHAREEN M NAZAR	BA English (V)
8	NEENU SAJI	BA English (V)
9	MARIAT MOL GEORGE	BA English (V)
10	STEPHENA FREDY	BA English (V)
11	FATHIMA SALAM	BA English (V)

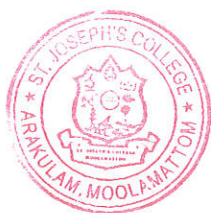
12	SHIFAS NISHAD	BA English (V)
13	ARJUN SURESH	BA English (V)
14	V.I SAFVANA	BA English (V)
15	NAINESH SOMAR	BA English (V)
16	ASWATHY M.K	BBA
17	ANANDHAKRISHNAN P K	B.Sc Chemistry
18	MEENAKSHI ANIL	B.Sc Chemistry
19	NANDHU SHAJI	B.Sc Chemistry
20	J.PARVATHY	B.Sc Chemistry
21	ANANTHU MANOJ	B.Sc Chemistry
22	SONA THOMAS	B.Sc Chemistry
23	ABHIRAM P	BA English (V)
24	ELSA SANDRA JOMON	B.Sc Chemistry
25	CHRISTEENA SABU	BA English (V)
26	ALAN M SOJAN	B.Sc Chemistry
27	B. NANDHANA	BA English (V)
28	SURUMI SUNIL	B.Sc Chemistry
29	NANDHANA SUNIL	B.Sc Chemistry
30	HARISANKAR S	BA English (V)
31	ABHIMANYU C R	B.Sc Chemistry
32	ALEENA BIJU	BA English (V)
33	ARDHRA MANOJ	B.Sc Chemistry
34	MUHAMMED ASHARAF	B.Sc Chemistry
35	MEVIN MATHEW	B.Sc Physics (V)
36	ARDHRA E J	B.Sc Chemistry
37	SNEHA MOHANAN	B.Sc Physics (V)
38	ALBIN JOSE	B.Sc Physics (V)
39	PRETTINA P VARGHESE	B.Sc Chemistry
40	SILPA SANKAR	B.Sc Chemistry
41	SOORAJ BIJU	B.Sc Physics (V)
42	ANANTHA KRISHNAN C G	B.Sc Chemistry
43	CHRISTIN MARY	B.Sc Physics (V)
44	ALFIYA C.M	B.Sc Physics (V)
45	HRIDYA MURALEEDHARAN	B.Sc Chemistry
46	VISHAKH K.S	B.Sc Physics (V)
47	ARUN RAJ T.V	B.Sc Physics (V)
48	GURUPRIYA SUGATHAN	B.Sc Physics (V)
49	AMEENA NAZAR	B.Sc Physics (V)
50	APARNA RAJU	B.Sc Physics (V)
51	GOPIKA RAJAN	B.Sc Mathematics
52	ASWATHY SUBHASH	B.Sc Mathematics
53	MERIN SHIBU	B.Sc Mathematics
54	SONA BINU	B.Sc Mathematics

56	AKASH ANIL	B.Sc Mathematics
57	SHANOOB SALIM	BA Economics
58	KRISHNADAS BIJU	B.Sc Mathematics
59	AKSHAY REJU	BA Economics
60	JOYAL BABY	B.Sc Mathematics
61	ABIN BABY	BA Economics
62	AIDA VINOY	B.Sc Mathematics
63	GOPIKALAKSHMI C G	BA Economics
64	ANJALY BENNY	BA Economics
65	AKHIL SHINIL	BA Economics
66	DEVIKA GOPI	BA Economics
67	BLESSY N GEORGE	BA Economics
68	ANEENA BINU	BA Economics
69	CYRIAC CYRIL	BA Economics
70	RICHU JOLLY	BA Economics
71	DEVIKA K S	BA Economics

Outcome

Our students were effectively educated on the importance of bees to our ecosystem, Keralabeekeeping customs, and the many uses and advantages of honey during the seminar. It brought attention to the need of sustaining bee numbers, protecting the environment, and thinking about taking an active role in preserving them. Those who attended Sudhis Plathottam's lecture came away with a deeper understanding of the value of beekeeping and the indispensable function that bees play in our ecosystem. They also left with a greater appreciation for the amazing advantages of honey in our daily lives.

Coordinator
PRINCE J. MATHEW

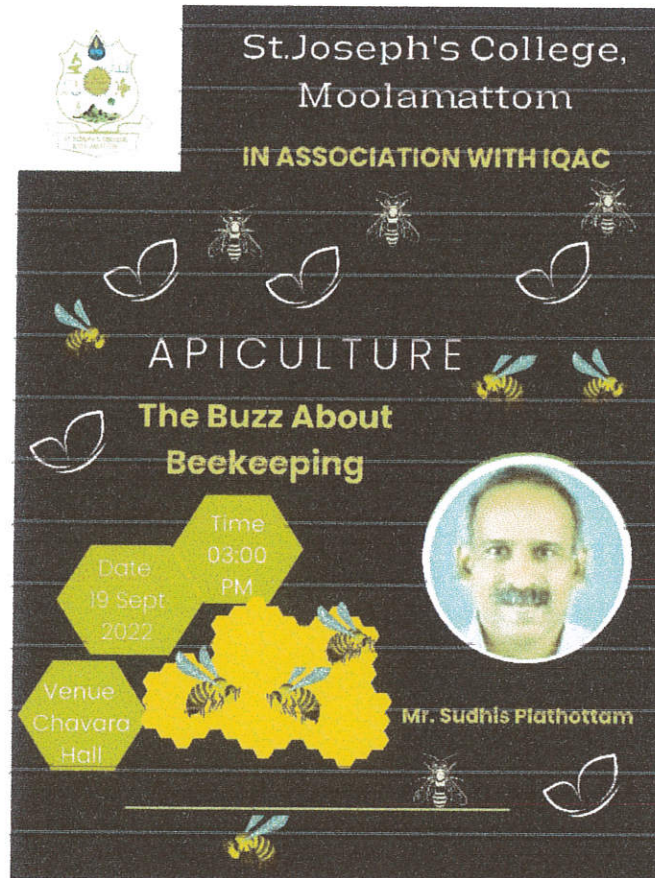



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Seminar Report

2022-2023

The Buzz About Beekeeping



Seminar led by Mr. Sudhis plathottam about The Buzz About Beekeeping on 19-09 -2022

Topic:- The Buzz About Beekeeping

Speaker Mr. Sudhis plathottam

Participants - 63

Summary of the seminar

The honeybee is one of the most intriguing animals in nature! We'll go into the realm of beekeeping today and examine its importance, especially in light of Kerala, a state renowned for its agricultural and biodiversity. Not only are bees little animals, but they are vital to our environment. They are the pollinators of nature, bringing out a multitude of crops and sustaining the biodiversity of our world. Their influence is critical to food production, agriculture, and the environment's overall equilibrium. Kerala has a long history of raising bees. A variety of bee species find the state to be an ideal habitat due to its rich vegetation and tropical temperature.

Kerala's agricultural techniques have included beekeeping, which has greatly benefited the region's economy and ecology.

Beekeeping has several benefits beyond the production of honey. Pollination increases crop productivity, yields important goods like propolis, honey, beeswax, and royal jelly, and helps preserve the environment. Beekeeping has difficulties all throughout the world, despite its significance. Bee populations are under threat from diseases, pesticides, habitat loss, and climate change. Maintaining and safeguarding our bee populations requires an understanding of these difficulties. The caretakers of bees are their protectors. They are essential in maintaining the health of bee colonies, utilizing sustainable methods, and aiding in the preservation of these priceless creatures. Beekeeping offers a plethora of options for young minds ready to make an impact. It's not simply a custom; it's a cutting-edge, contemporary sector with opportunities for enterprise, research, and sustainable agriculture.



M.A M.Phil. Sudhis Plathottam taking class on Beekeeping

He urges students to learn more about this area, make contributions to its sustainability, and think about how you might help biodiversity and bee populations. Remember to be grateful for the small but powerful bees and think about ways we can help and sustain them. After this session, please don't hesitate to get in touch if you have any questions or would like to continue the conversation. Remember, bee kind to bees!

Report on "The Buzz About Beekeeping"

Sudhis Plathottam led an engaging and informative seminar titled "The Buzz About Beekeeping" on September 19, 2022, at St. Joseph's College. The seminar aimed to shed light on the critical role of beekeeping, specifically in Kerala, a region renowned for its biodiversity and agricultural practices.

The Value of Bees: Sudhis emphasized the importance of bees in our ecology, emphasizing their function as pollinators that are essential to crop development and environmental harmony. **Kerala's Beekeeping Tradition:** The speaker went into detail on the state's rich beekeeping legacy, highlighting the region's favorable climate for a wide variety of bee species as well as its significant benefits to the environment and local economy. **Beyond Honey Production:** According to Sudhis, beekeeping produces more than just honey; it also helps agriculture by pollinating crops and yielding necessary goods like royal jelly, propolis, and beeswax. **Problems Faced:** A number of global issues, such as pesticides, illnesses, habitat loss, and climate change, have been brought to light as threats to bee populations. It is imperative that these issues be understood and addressed in order to preserve bee populations. **Role of Beekeepers:** The seminar stressed the pivotal role of beekeepers in safeguarding bee colonies, using sustainable practices, and contributing to the preservation of these invaluable insects. Sudhis Plathottam encouraged the audience, particularly young minds, to consider the wide-ranging opportunities in beekeeping, portraying it as not just a traditional practice but a modern, innovative field with prospects for research, entrepreneurship, and sustainable agriculture.

Participants list

Number	Name	Department
1	ANJALI KS	MA English
2	AJMI NAVAS	BBM
3	ALFIYA RASHEED	BBM
4	JESSAL E A	B Com Computer(V)
5	GAYATHRI GANGADHARAN	B.Sc Physics (V)
6	ASWATHY RAJU	B.Sc Physics (V)
7	DIVYA DEEPU	B.Sc Chemistry
8	CHIPPI SASI	B.Sc Chemistry
9	MIDHUN SHAKKARAVURTHI S	B.Sc Chemistry
10	DEVIKA LATHISH	B.Sc Chemistry
11	ANAND M S	B.Sc Chemistry
12	ALWIN SANKAR M	BBM
13	ALBERT JACOB	B.Sc Physics (V)
14	ASIF P A	BBA
15	ABIN TOM	BBA
16	ADITHYAN GOPALAKRISHNAN	B.Sc Physics (V)
17	SAFNA HAMEED	B.Sc Chemistry

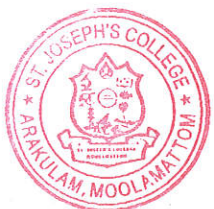
18	ABITH SAHAL	B.Sc Physics (V)
19	ANEESHA M ANILKUMAR	B.Sc Chemistry
20	MALAVIKA SUBHASH	B.Sc Physics (V)
21	MEBIN SABU	B.Sc Chemistry
22	RENJAL KRISHNA P	B.Sc Physics (V)
23	GAYATHRI T	B.Sc Physics (V)
24	NAUFEL HUSSAIN	B.Sc Physics (V)
25	DEVIKA PRAMOD	BBA
26	AUGUSTINE THOMAS	BBA
27	ANUGRAHA V.ANIL	BBA
28	SIVALAKSHMI SOMAN	B Com Computer(V)
29	JISHNU REJI	B Com Computer(V)
30	JASAL JAFFAR	B Com Computer(V)
31	SREESHMA V.M	B Com Computer(V)
32	ALEX JOSHY	B Com Computer(V)
33	NITHIN BIJU	BBA
34	ABIN SHAJI	BBA
35	JIJO THOMAS	B Com Computer(V)
36	NAYANA K B	B Com Computer(V)
37	ABHIJITH SAJI	B Com Computer(V)
38	DEVIKA P	BBA
39	JILSHIN C KADER	BBA
40	AKHILA MATHEW	BBA
41	VISHNU T S	BBA
42	SHIJIN ASHRAF ALI	BBA
43	MILAN DIVAKAR	BBA
44	APARNA ASHOK	BA English (V)
45	ABINOVATHMAJA B M	BA English (V)
46	SRUJITH T	BA English (V)
47	SAYANA SAJU	BA English (V)
48	MOVEENA BENNY	BA English (V)
49	ADITHYA RAJAN	BA English (V)
50	ANTON S MYLADIYIL	BA English (V)
51	TANIYA MARY P S	BA English (V)
52	HANNA PAUL	BA English (V)
53	DHANUSH J	BA English (V)
54	ALADIN JOSEKUTTY	BA English (V)
55	AKSHARA T M	BBM
56	HARINANDHA BINU	BBM
57	ALBIN GEORGE	B Com Computer(V)
58	RENJITH ANILKUMAR	BA Economics
59	DEEPU RAMESH	B Com Computer(V)
60	ALFAN MUHAMMED	B Com Computer(V)

61	MAANAS MANOJ	B Com Computer(V)
62	JAGATH KRISHNA	B Com Computer(V)
63	NAYANENDHU P RAJ	BBM

Outcome

Sudhis Plathottam's seminar on "The Buzz About Beekeeping" was not only enlightening but also inspiring. It successfully conveyed the importance of bees in our ecosystem and the potential for beekeeping, especially in Kerala. It encouraged the students to think about actively contributing to bee conservation and investigate the opportunities in the beekeeping industry, particularly the younger generation. The urged the attendees to contemplate their role in supporting bee populations and biodiversity. Sudhis Plathottam also extended an offer for further discussions or questions post-seminar, fostering ongoing engagement with the topic. The seminar received positive feedback, with attendees expressing enthusiasm and interest in further exploring beekeeping's potential and its significance.

Coordinator
- PRINCE J. MATHEW



Manu
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