

Keshav Memorial Institute of Commerce & Sciences

Department of Biotechnology

Activities Report 2018-19

Sl. No.	Date	Type of Program	Title of Program
1	30-07-2018	Field trip	Visit to Azolla Farm, Regional Fodder Station, Pahadi Sharif, Hyderabad.
2	4-Sep-18	Workshop	One-day workshop on Azolla cultivation
3	1-Oct-18	Orientation & Field activity	Go Green Program
4	4-Feb-19	Field activity	World Cancer Day Awareness Campaign
5	30-03-2019	Workshop	One day National Level Workshop on Virtual Learning,

Field trip : Visit to Azolla Farm, Regional Fodder Station, Pahadi Sharif, Hyderabad.

Date: 30-07-2018

Azolla: Azolla is a tiny, aquatic fern that forms a symbiotic relationship with a blue-green algae called Anabaena azollae. This unique partnership allows Azolla to capture nitrogen from the environment and convert it into a usable form for plants.

Azolla Farms

Azolla farms are dedicated to cultivating Azolla on a commercial scale. These farms typically involve water bodies, cultivation techniques, harvesting, processing and distribution. Students were taken to Regional Fodder Station, Hyderabad to make them learn about its importance.



Importance of Azolla

- **Natural Fertilizer:** Azolla's ability to fix atmospheric nitrogen makes it an excellent natural fertilizer. It can significantly reduce the need for synthetic fertilizers, which are harmful to the environment
- **Soil Improvement:** Incorporating Azolla into the soil enhances its fertility by increasing organic matter content and improving soil structure.
- **Weed Control:** Azolla forms a dense mat on the water surface, suppressing the growth of weeds in rice paddies and other aquatic environments.
- **Water Quality Improvement:** Azolla can help improve water quality by absorbing excess nutrients and reducing algal blooms.
- **Livestock Feed:** Azolla is rich in protein and other nutrients, making it a valuable feed supplement for livestock.

Workshop: “One Day Workshop On Azolla Cultivation.”

Date: 04-09-2018

Resource person: Mr. Banveer Singh, Director of Regional Station for Forage production, Hyderabad.



Azolla is a water fern that can be cultivated for various purposes, including biofertilizer, livestock feed, and biofuel production. Mr. Banveer Singh, has described the basic steps involved in its cultivation, which are: Site Selection, Pond Preparation, Inoculation, Nutrient Management, Water Quality, Harvesting, Utilization, Pest and Disease Control, Continuous Monitoring, and Scale-Up. Mr. Banveer Singh has also helped in the setup of Azolla culture in the college campus.

Go Green Program

Date: 01-10-2018

A Go Green program typically refers to initiatives aimed at environmental sustainability and conservation. Students have been given an orientation on environmental sustainability, emphasising on Environmental Protection, Climate Change Mitigation, Resource Conservation Waste Reduction, Public Health Improvement, Economic Benefits, Community engagement, Education and awareness on environmental issues, on sustainable planet for future generations. As a Field activity, students have raised plants from various seed, and distributed them at the local community with a phamplet on the environmental sustainable practices.



World Cancer Day Awareness Campaign

Date: 04-02-2019

World Cancer Day is an international day marked on February 4th to raise awareness about cancer and encourage its prevention, detection, and treatment.

An awareness program was conducted to educate about cancer types, risk factors, and prevention methods, about regular check-ups and screenings for early cancer detection, accessible treatment and support for patients, new treatments and cures for cancer, community participation in cancer control efforts, healthy lifestyle choices to reduce cancer risk, hope and inspiration to cancer patients, survivors, and their families.

Further as a field activity, students have performed a rally with banners and posters displaying about cancer prevention, and treatments.



Workshop: One day National Level Workshop on Virtual Learning

Date: 30-03-2019

Virtual learning, also known as online learning or e-learning, is a method of education where students access instructional content and interact with educators and peers remotely. This typically involves using digital platforms, such as computers, tablets, or smartphones.

A one day national level workshop has been conducted, introducing to the students and faculty about the various online resources of learning.



Impact of Virtual Learning:

- 1) Breaks down geographical barriers, allowing students from diverse locations to access education.
- 2) Offers greater flexibility in terms of learning pace and schedule, accommodating different learning styles.
- 3) Can be more affordable than traditional education, especially for students in remote areas.
- 4) Can be challenging to foster strong social connections compared to traditional classrooms.
- 5) Requires high levels of self-discipline and time management.
- 6) Susceptible to technical difficulties and internet connectivity problems.
- 7) Limited opportunities for practical experiences and hands-on activities.
- 8) Allows for tailored learning experiences based on individual needs and abilities.