

Permission letter

To
The Principal
SRC, Muzaffarnagar

Subject: Permission for conduct a training program on empowerment of students through live stock technology.

I am writing this letter to allow for conducting a training program on empowerment of students through livestock technology from 4.09.2019 to 14.09.2019. This will be beneficial for students so that they may use the knowledge for their service or their own startups. Kindly present us for the same.

Date: 16.08.2019



HOD

**Department of Agriculture
Shri Ram College, Muzaffarnagar**



**Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar**



**Principal
Shri Ram College
Muzaffarnagar**

Notice

All the students are hereby informed that training program on empowerment of students through livestock technology will be held on (04.09.2019 – 14.09.2019) Time 02:00 PM to 05:00 PM. This training aims is to teach the basic skills and knowledge regarding new livestock technology. I hope that this will be a beneficial session for all of you. Please ensure that you will present for this training.

Date: 25.08.2019


HOD
Department of Agriculture
Shri Ram College, Muzaffarnagar


Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar


Principal
Shri Ram College
Muzaffarnagar



DEPARTMENT OF AGRICULTURE
SHRI RAM COLLEGE, MUZAFFARNAGAR

Date: 15.09.2019

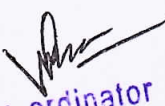
Report

A Training Programme for Empowerment of Students Through Livestock Technologies was organized by Department of Agriculture at Shri Ram College, Muzaffarnagar. The training session was conducted during college hours (2:00 PM – 5:00 PM) the training was conducted from (05.09.2019 to 14.09.2019). 95 students participated in this training programme. On day 1st of this training session orientation was carried out by Dr. Nayeem (Head, Department of Agriculture) general introduction was given by Dr. KS Barman.

In this programme students gained knowledge about livestock new technologies in agriculture animal farming methods. Farmers today are facing challenges from infrastructure to connectivity, growing demands for animal proteins to food spoilage, and disease with concerns rising around animal health. Technology is disrupting all industries in our modern age, and Agriculture Technology is no exception. We sought out on a mission to get back to our roots and gather perspective from those leading the industry and working to address these issues. The traditional livestock industry is a sector that is widely overlooked and under-serviced, although it is arguably the most vital. Livestock provides much needed renewable, natural resources that we rely on every day. Why is the process to adopt technology so slow within this industry? Well the short answer, money. The economics of the livestock industry shifts from season to season, meaning it's not always profitable. With fewer investments, comes fewer adoptions of technology.

On Day 2 they learned about Livestock Technology and the 'Connected Cow'

Everything in the digital age is connected, including farming and agriculture. Livestock technology can enhance or improve the productivity capacity, welfare, or management of animals and livestock. The concept of the 'connected cow' is a result of more and more dairy herds being fitted with sensors to monitor health and increase productivity. Putting individual wearable sensors on cattle can keep track of daily activity and health-related issues while providing data-driven insights for the entire herd. All this data generated is also being turned into meaningful, actionable insights where producers can look quickly and easily to make quick management decisions.


Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

On day 3rd they gained knowledge about What is Animal Genomics?

Animal genomics can be defined as the study of looking at the entire gene landscape of a living animal and how they interact with each other to influence the animal's growth and development. Genomics help livestock producers understand the genetic risk of their herds and determine the future profitability of their livestock. By being strategic with animal selection and breeding decisions, cattle genomics allows producers to optimize profitability and yields of livestock herds.

On day 4th the animal agriculture sight for monitoring the technologies used in the animal farming practices.

students were taken to the animal agriculture sight for monitoring the technologies used in the animal farming practices. After coming back to the college, group discussions were organized where students were grouped into 5 Some were against the traditional farming practice and some were in supporting this modern era of farming technique which empowering the students through discussion. Limited times were given to each group for discussion.


On 5th day they learn about feeding practices which is given to animals

Feed, also called animal feed, food grown or developed for livestock and poultry. Modern feeds are produced by carefully selecting and blending ingredients to provide highly nutritional diets that both maintain the health of the animals and increase the quality of such end products as meat, milk, or eggs. Ongoing improvements in animal diets have resulted from research, experimentation, and chemical analysis by agricultural scientists.

Animals in general require the same nutrients as humans. Some feeds, such as pasture grasses, hay and silage crops, and certain cereal grains, are grown specifically for animals. Other feeds, such as sugar beet pulp, brewers' grains and pineapple bran are by-products that remain after a food crop has been processed for human use. Surplus food crops, such as wheat, other cereals, fruits, vegetables, and roots, may also be fed to animals.

On 6th day knowledge was given about Basic nutrients and additives

The basic nutrients that animals require for maintenance, growth, reproduction, and good health include carbohydrates, protein, fat, minerals, vitamins and water. The energy needed for growth and activity is derived primarily from carbohydrates and fats. Protein will also supply energy, particularly if carbohydrate and fat intake is inadequate or if protein intake exceeds the needs of


Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

the body. Animals need a source of energy to sustain life processes within the body and for muscular activity. When the energy intake of an animal exceeds its requirements, the surplus is stored as body fat, which can be utilized later as a source of energy if less food becomes available.

On 7th day nutritive quantity was discussed among students about Carbohydrates, Proteins, Vitamins, Fats and Minerals should be present in animal feed.

On 8th day livestock management was carried out by giving knowledge to the students about the new livestock management practice as.

(a) Livestock Software:


Many livestock managers Use Livestock Software use agricultural software to track all actions performed in relation to livestock, including feeding, tagging, breeding, treatments, and more. These programs can also manage scheduling and budgeting for farmers. The software will keep detailed records with information vital to farm staff, animal nutritionists, and veterinarians. Ear tagging allows for individual tracking of each animal. Livestock management software is most commonly used for larger animals like cattle, swine, and sheep.

(b) Sustainable and Humane Operations:

Another concern with mounting pressure is the sustainability of livestock operations, as well as demand for more humane animal operations. Livestock production provides livelihood for millions of farmers across the world, but consumers are becoming more aware of the greenhouse gas emissions contributed to the atmosphere by livestock. Consumers are also creating higher demands for free-range meats and eggs over animal products from resource-intensive factory farming operations.

(c) Continuous Improvement:

The field of livestock management continues to develop innovations for how to better care for livestock. Livestock managers interested in learning more about best practices and industry trends for the future so that they can develop their skills through professional programs and credentialing. For example, the American Society of Farm Managers and Rural Appraisers offers an Accredited Farm Manager designation to managers who have completed a bachelor's degree program.


Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

On day 9th the topic of discussion was on Advantages and Disadvantages of Livestock Technology

Sensor and data technologies have huge benefits for the current livestock industry. It can improve the productivity and welfare of livestock by detecting sick animals and intelligently recognizing room for improvement. Computer vision allows us to have all sorts of unbiased data that will get summarized into meaningful, actionable insights. Data-driven decision making leads to better, more efficient, and timely decisions that will advance the productivity of livestock herds.

However, there are some unintended consequences of this technology. In the digitalization of industries, agriculture is often at the bottom of all charts for technology adoption. The cyclical nature of economics in the livestock industry makes it difficult for producers to justify the initial steep upfront costs of implementing these technologies.

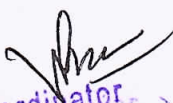
Another challenge of the livestock industry particularly as more and more technology is being developed, is that in a dairy herd manager's office, there are often multiple computers and screens each dedicated to a different technology or records keeping program. A major need in the livestock industry is for more integration of these technologies so that there can be one platform that brings together all of this data. There are companies that are working on this and pulling data from multiple sources into one app that summarizes the data nicely so that it can be used to make well-informed decisions. Data integration and facilitating decision-making is true not only for the dairy and livestock management industry but also more broadly for the entire agriculture industry. Having data is not enough - the valuable insights should lead to actionable decisions.

In this training programme a debate competition was organized and every student has delivered the speech about effectiveness of the programme at the closing ceremony of this programme Certificates were given to the all regular participants.

Date: 15.09.2019

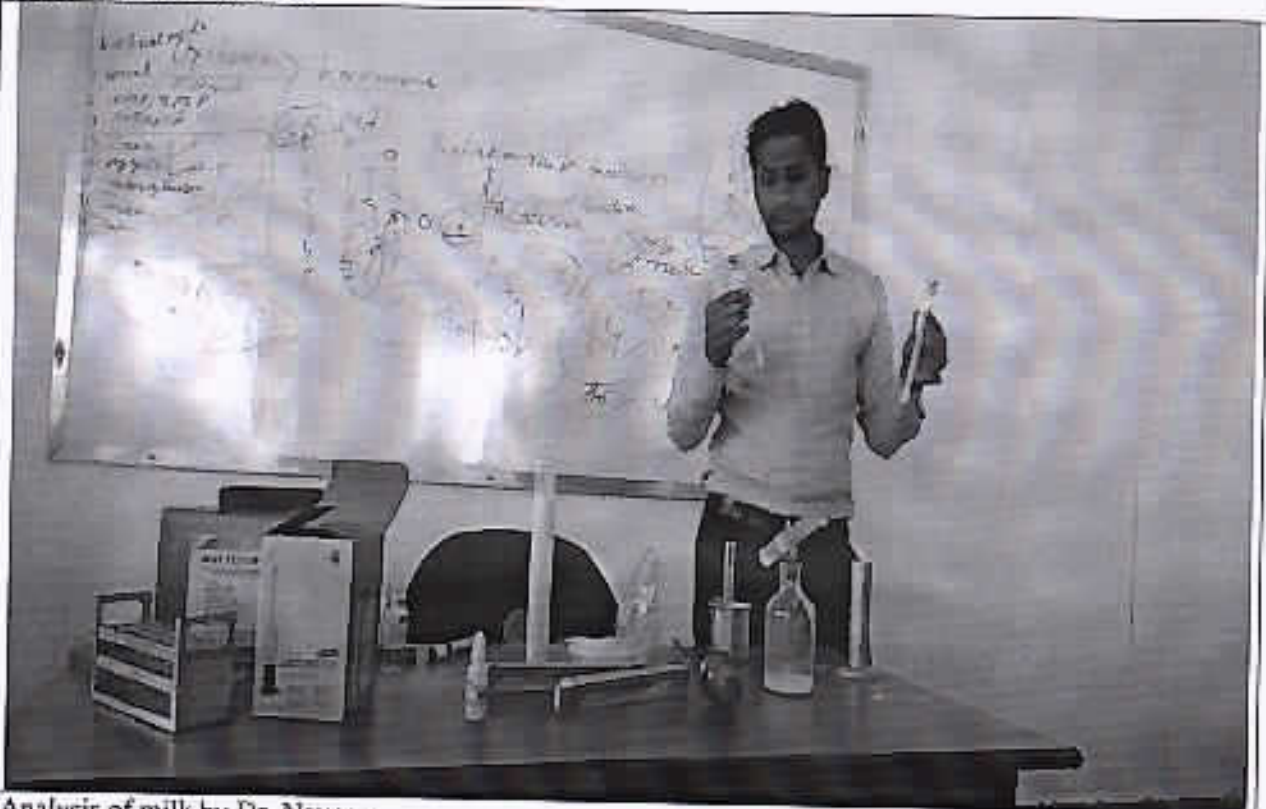

HOD

**Department of Agriculture
Shri Ram College, Muzaffarnagar**


Co-ordinator
IOAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

Training Program on "Empowerment of Students through Live Stock Technologies" Dated:
05.09.2019 to 14.09.2019



Analysis of milk by Dr. Nayeem



Process of Butter Churning by Dr. Nayeem


Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar


Principal
Shri Ram College
Muzaffarnagar



Demonstration of Feed and Mineral mixture

Demonstration of Complete Feed for Livestock to Students by dr. Nayeem



Chaff Cutter Visit to Students by Dr. Nayeem

[Signature]
Co-ordinator
IQAC, Sri Ram College,
Muzaffarnagar

[Signature]
Principal
Sri Ram College
Muzaffarnagar

Attendance of Participant Students in the Training Program on "Empowerment of Students through Live Stock Technologies" Dated: 05.09.2019 to 14.09.2019

S.N.	Name of Students	Father Name	05.09.2019	06.09.2019	07.09.2019	08.09.2019	09.09.2019	10.09.2019	11.09.2019	12.09.2019	13.09.2019	14.09.2019	
1.	VINOD KUMAR	Mr SOMPAL SINGH	P	P	P	S U N D A Y	P	P	P	P	P	P	
2.	VISHANT PUNDIR	Mr PAWAN KUMAR	P	P	P		P	P	P	P	P	P	P
3.	VISHVJEET BALIYAN	Mr DHIRANDRA SINGH	P	P	P		P	P	P	P	P	P	P
4.	VISHVJEET SINGH	Mr PRITAM SINGH	P	P	P		P	P	P	P	P	P	P
5.	YUVRAJ	Mr MANOJ KUMAR	P	A	P		P	P	P	P	P	P	P
6.	AJAY SINGH	Mr DHARMENDRA	P	P	P		P	P	P	P	P	P	P
7.	AKSHAY KUMAR	Mr CHANDRA PAL	P	P	P		P	P	P	P	P	P	A
8.	AKSHAY K. SINGH	Mr HRABEER SINGH	P	P	P		P	P	P	P	P	P	P
9.	AMAN TIYAGI	Mr RAM KUMAR TYAGI	P	P	P		P	P	P	P	P	P	P
10.	ANKIT PUNDIR	Mr KULDEEP SINGH	P	P	P		P	P	P	P	P	P	P
11.	ANUJ RANA	Mr BRIJPAL	P	P	P	S U N D A Y	P	P	P	P	P	P	
12.	ANUKUL TYAGI	Mr GOPAL TYAGI	P	P	P		P	P	P	P	P	P	P
13.	APIL KUMAR	Mr RISHIPAL	P	P	P		P	P	P	P	P	P	P
14.	ARJUN SHARMA	Mr SUNIL KUMAR	P	P	P		P	P	P	P	P	P	P
15.	ARUN KUMAR	Mr SATYAPARKASH	P	P	P		P	P	P	P	P	P	P
16.	ASHUTOSH DESHWAL	Mr SATENDER KUMAR	P	P	P		P	P	A	P	P	P	P
17.	ATUL KUMAR	Mr SUNIL KUMAR	P	P	P		P	P	P	P	P	P	P
18.	AYUSH KHOKHAR	Mr YOGESH KUMAR	P	P	P		P	P	P	P	P	P	P
19.	BHUPATI RAMANUJ	Mr RAMGOPAL	P	P	P		P	P	P	P	P	P	P
20.	DEEPAK KUMAR	Mr JANESH	P	P	P		P	P	P	P	P	P	P
21.	DIPENDRA	Mr PRABHASH KUMAR	P	P	P	S U N D A Y	P	P	P	P	P	P	
22.	GAURAV KUMAR	Mr PRAMOD KUMAR	P	P	P		P	P	P	P	P	P	P
23.	GAURAV KUMAR	Mr NAND KISHOR	P	P	P		P	P	P	P	P	P	P
24.	MAHESH KUMAR	Mr DAVENDRA SINGH	P	P	P		P	P	P	P	P	P	P
25.	MANISH KUMAR	Mr POORAN SINGH	P	P	P		P	P	P	P	P	P	P
26.	MOHD FARUKH	Mr KALEKHAN	P	P	P		P	P	P	P	P	P	P
27.	MOHIT KUMAR	Mr MAHENDRA SINGH	P	P	P		P	P	P	P	P	P	P
28.	MOHSIN	Mr SAHEED AHMAD	P	P	P		P	P	P	P	P	P	P
29.	MONU KUMAR	Mr MANIKANT	P	P	P		P	P	A	P	P	P	P
30.	NITESH	Mr ROHTASH	P	P	P		P	P	P	P	P	P	P
31.	NITIN KUMAR	Mr SHIV KUMAR	P	P	P	P	P	P	P	P	P	P	
32.	NITIN KUMAR	Mr JAI SINGH	P	P	P	P	P	P	P	P	P	P	

[Signature]
 Coordinator
 Shri Ram College,
 Muzaffarnagar



[Signature]
 Principal
 Shri Ram College
 Muzaffarnagar

33.	PARAS PUNDIR	Mr KEHAR SINGH	P	P	P		P	P	P	P	P	P	P
34.	PRASHANT	Mr MANOJ KUMAR	P	P	P		P	P	P	P	P	P	P
35.	PRAVEEN	Mr KIRANPAL	P	P	P		P	P	P	P	P	P	P
36.	SALIM	Mr MD ABDUL SAHMAD	P	P	P		P	P	P	P	P	P	P
37.	SAMIR SHAH ALI	Mr SHAUKAT	A	P	P		P	P	P	P	P	P	P
38.	SANDEEP KUMAR	Mr JAYPAL SINGH	P	P	P		P	P	P	P	P	P	P
39.	SANJAY KUMAR	Mr TILAK RAM	P	P	P		P	P	P	P	P	P	P
40.	SANU	Mr CHANDRAPAL	P	P	P		P	P	P	P	P	P	P
41.	SHUBHAM BALIYAN	Mr BALRAM	P	P	P		P	P	P	P	P	P	P
42.	SUFIAN QUDDUS	Mr ABDUL QUDDUS	P	P	P		P	P	P	P	P	P	P
43.	SUMIT	Mr RAJESH	P	P	P		P	P	P	P	P	P	P
44.	SUMWANT	Mr BHAGWAT SINGH	P	P	P		P	P	P	P	P	P	P
45.	TANISH JAWLA	Mr SANJAY KUMAR	P	P	P		P	P	P	P	P	P	P
46.	UMANG KUMAR	Mr NARENDRA SINGH	P	P	P		P	P	P	P	P	P	P
47.	USHMAN ALI	Mr ANEES AHAMAD	P	P	P		P	P	P	P	P	P	P
48.	VANSH DHAMA	Mr SANDEEP KUMAR	P	P	P		P	P	P	P	P	P	P
49.	VIVEK DHAMA	Mr SUDESH KUMAR	P	P	P		P	P	P	P	P	P	P
50.	YASH MALIK	Mr JAGDEV	P	P	P		P	P	P	P	P	P	P
51.	ANKUR DHIMAN	Mr PRAMOD K. DHIMAN	P	P	P		P	P	P	P	P	P	P
52.	ANMOL SAINI	Mr RAJESH SAINI	P	P	P		P	P	P	P	P	P	P
53.	ANOOP SINGH	Mr SATKUMAR SINGH	P	P	P		P	P	P	P	P	P	P
54.	ANSHUL SHARMA	Mr AJEET K. SHARMA	P	P	P		P	P	P	P	P	P	P
55.	ANURAG	Mr KAUSHAL KISHOR	P	P	P		P	P	P	P	P	P	P
56.	ARPIT SHARMA	Mr SURESH SHARMA	P	P	P		P	P	P	P	P	P	P
57.	ARUN SAINI	Mr GORDHAN SAINI	P	P	P		P	P	P	P	P	P	P
58.	GUL MOHMMAD	Mr ASLAM NADEEM	P	P	P		P	P	P	P	P	P	P
59.	HARSH RASTOGI	Mr SH. RAJKUMAR R.	P	P	P		P	P	P	P	P	P	P
60.	HARSHIT MALIK	Mr DHARMENDRA MALIK	P	P	P		P	P	P	P	P	P	P
61.	HARSHIT MALIK	Mr DHARMENDRA MALIK	P	P	P		P	P	P	P	P	P	P
62.	KUBER SAINI	Mr SATYAVEER SINGH	P	P	P		P	P	P	P	P	P	P
63.	MANUSHANKAR	Mr SANJEEV KUMAR	P	P	P		P	P	P	P	P	P	P
64.	MOHIT KUMAR	Mr BABU RAM	P	P	P		P	P	P	P	P	P	P
65.	MOHIT MAURYA	Mr BABU RAM	P	P	P		P	P	P	P	P	P	P
66.	MOHIT SAINI	Mr SUNDER SAINI	P	P	P		P	P	P	P	P	P	P
67.	MUNEER	Mr MAROOF	P	P	P		P	P	P	P	P	P	P

S
U
N
D
A
Y

Co-ordinator
IQAC, Shri Ram College
Muzaffarnagar



Principal
Shri Ram College
Muzaffarnagar

68.	NAITIK PANWAR	Mr PRAMOD KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
69.	NAVEEN	Mr SH. YOGENDRA SINGH	P	P	P	P	P	P	P	P	P	P	P	P
70.	NIKHIL KUMAR	Mr RAKESH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
71.	PRASHANT RANA	Mr ASHOK PUNDIR	P	P	P	P	P	P	P	P	P	P	P	P
72.	PRAVEEN KUMAR	Mr SUNDER PAL	P	P	P	P	P	P	P	P	P	P	P	P
73.	PRINCE DESHWAL	Mr ASHOK KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
74.	PRIYANSHU KUMAR	Mr SANJEEV KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
75.	PUNIT	Mr SURESH	P	P	P	P	P	P	P	P	P	P	P	P
76.	RAJEEV	Mr SH, CHHOTU	P	P	P	P	P	P	P	P	P	P	P	P
77.	RAJIV	Mr DEV SHARMA	P	P	P	P	P	P	P	P	P	P	P	P
78.	RAJNEESH KUMAR	Mr DHARMVEER	P	P	P	P	P	P	P	P	P	P	P	P
79.	RAM BABU	Mr MAHESH SAINI	P	P	P	P	P	P	P	P	P	P	P	P
80.	RANDEEP	Mr SHIV KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
81.	RITIK CHAUDHARY	Mr ISMPAL	P	P	P	P	P	P	P	P	P	P	P	P
82.	SACHIN KUMAR	Mr KOMAL SINGH	P	P	P	P	P	P	P	P	P	P	P	P
83.	SACHIN KUMAR	Mr MAHAVEER SINGH	P	P	P	P	P	P	P	P	P	P	P	P
84.	SANDEEP KUMAR	Mr DHARAM PAL	P	P	P	P	P	P	P	P	P	P	P	P
85.	SANKALP KUMAR	Mr ASHISH PRASAD	P	P	P	P	P	P	P	P	P	P	P	P
86.	SATENDRA KUMAR	Mr MAHAVEER SINGH	P	P	P	P	P	P	P	P	P	P	P	P
87.	SATYAM PUNDIR	Mr SURENDRA SINGH	P	P	P	P	P	P	P	P	P	P	P	P
88.	SATYAVRAT RAGHU.	MR RAVINDRA SINGH	A	P	P	P	P	P	P	P	P	P	P	P
89.	SHUBHAM K.SHARMA	Mr PRAMOD KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
90.	SHUBHAM SHARMA	Mr SATYA P.SHARMA	P	P	P	P	P	P	P	P	P	P	P	P
91.	SUDHANSHU KARAN	Mr SUDARSHAN LAL	P	P	P	P	P	P	P	P	P	P	P	P
92.	SULTAN SAL.	Mr MOHD KAMIL	P	P	P	P	P	P	P	P	P	P	P	P
93.	SUMIT	Mr MANGERAM	P	P	P	P	P	P	P	P	P	P	P	P
94.	UJJAWAL	Mr VINOD KUMAR	P	P	P	P	P	P	P	P	P	P	P	P
95.	UMANG PUNDIR	Mr ASHOK KUMAR	P	P	P	P	P	P	P	P	P	P	P	P

S
U
N
D
A
Y

Note: P= Presence and A= Absence

Date: 15.09.2019



Co-ordinator
HAC, Shri Ram College,
Muzaffarnagar




HOD

Department of Agriculture
Shri Ram College, Muzaffarnagar



Principal
Shri Ram College
Muzaffarnagar