

# AAU

## NEWS LETTER

Publication of  
Anand Agricultural University



Volume : 19 • No. 2

July - September : 2022

### *From the Desk of the Vice Chancellor.....*

15 September is celebrated every year in the country as “Engineers’ Day” since the year 1968 to commemorate the Birth Anniversary of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka. Due to his outstanding contribution to the society, Government of India conferred “Bharat Ratna” upon him in the year 1955. He was also called the precursor of economic planning in India.

Engineering is the application of scientific and mathematical principles to practical ends. The gap between irrigation potential created, through major and minor projects, and the actual usage is increasing and is affecting the country's agricultural productivity. Agricultural engineering plays a very crucial role in providing optimal irrigation technology, since without water a plant/crop can't survive. The mean productivity of rainfed area (71.62 mha) is about 1.1 ton per ha compared to 2.8 ton per hectare of irrigated area in our country. Agricultural engineering is concerned with providing better water use efficiency through improved surface and subsurface irrigation technologies.

India is the world's second largest producer of fruits & vegetables after China however hardly 2% of this produce is processed. Food processing has numerous advantages which are specific to Indian context. It has capacity to lift millions out of poverty and malnutrition. Agriculture engineers also play an important role in the food processing industries, that provide vital linkages and synergies promoting the two major pillars of the economy, i.e. agriculture and industry. To meet the twin challenge of providing more energy as well as cleaner energy to the masses in India, agricultural engineers are taking the lead role in addressing this problem. Energy generated from renewable sources is cleaner and greener and more sustainable. Renewable sources of energy are expected to replace fossil fuels by 2050. Conversion of energy from Biomass is a considerable option as it will clean the cities as well as reduce our energy dependence on fossil fuels.

The concept of smart farming or precision farming is essential to address the current challenges in agriculture regarding productivity, climate change, food safety, and sustainability. This is luminous due to the continuous growth of the population, which leads to the rapid increase in food production, as well as the protection of natural ecosystems using sustainable agricultural processes. Agriculture 5.0 in combination with green energy sources and smart tools, is going in the right direction to move from a typical smart farm to an energy-smart farm. The main characteristic of Agriculture 5.0 is the need for remote sensing with the adoption of green energy sources such as anaerobic digestion and biogas. Thus, it can be achieved by using different smart devices such as Unmanned Aerial Vehicles, sensors, smart tractors, and others that are based on the emerging technologies of artificial intelligence, machine learning, and big data analytics at a low cost and environmental friendly use.

With the advent of smart farming or smart agriculture, the agricultural engineers introducing need-based and region specific engineering technologies to achieve sustainable enhanced productivity and profitability of different farming system which in general combines IoT, Robotics, Artificial Intelligence(AI), Machine Learning(ML) and sensors to assimilate and create an efficient and feasible product to help farmers.

In recent decades, Agricultural Engineering has emerged as a pivotal domain in combating the challenges of future agriculture and climate change.



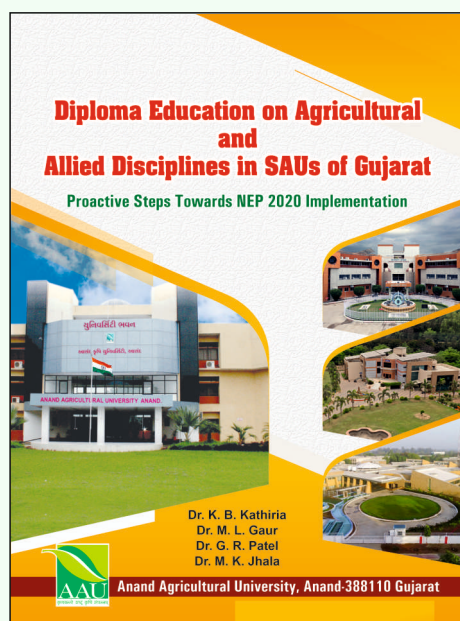
*K. B. Kathiria*  
(K. B. Kathiria)



## NATIONAL LEVEL RELEASE OF POLICY BOOK ON DIPLOMA EDUCATION FROM AAU ANAND



An innovative policy-based book namely **“Diploma Education on Agricultural & Allied Disciplines: Pioneering Practices in Gujarat”** Authored by **Dr. K. B. Kathiria, Dr. M. L. Gaur, Dr. G. R. Patel and Dr. M. K. Jhala** was carved, published and gloriously released at national level by Anand Agricultural University Anand Gujarat during July 2022. It presents a comprehensive account of information towards pioneering ways of imparting diploma based agricultural education in agricultural and allied disciplines. A bigger picture of this grand success sphere of innovative polytechnics based technical education in agricultural sector is presented, which has very high relevance and prominence, at present time; when Indian agriculture and its education sphere is at cross roads. At one end we are equipped with very high level of proven technologies & tools; while on other end we are a bit detached from real-ground traditional/informal/basic knowledge bits of applied nature. The subject line of published book, becomes further vital; keeping in view, the due objectives of recently implemented innovative NEP-2020 policy for higher agricultural education; where ample endorsement is made towards vocationalization of higher education and creation of active linkages across lower and higher education spheres in agriculture. Book consists results, information, interpretations, and propositions; which are arrived after extensive dedicated efforts on retrieving detailed reliable information, its conceptualization/compilation and critical analysis cutting across 21 polytechnics (under 4 SAUs of Gujarat). It involves 7 specific chapters based upon a template-based quality information data base. This publication from AAU will certainly prove as an asset for subject experts, policy planners, academicians, scholars, field functionaries and general public too for promoting their young kids to generate attraction towards polytechnics-based programs and contributing in smart forms of agriculture cutting across subjects and other traditional barriers.



The book reflects and establishes the proactive actions of AAU (in light of new education policy NEP-2020 of Govt of India) for linking the skill based medium level agricultural education with higher agricultural education. Accordingly, it was considered pioneer from policy perspectives, and identified to get released at national level by ICAR New Delhi. **It was formally released by Hon'ble Union Minister of Agriculture & Farmers Shri Narendra Singh Tomar, Union Cabinet Minister of Fisheries Animal Husbandry and Dairying, Shri Purushotambhai Rupala, Union Minister of State for Agriculture and Farmers' Welfare Shri Kailash Joshi, Secretary DARE & DG ICAR, Member NITI Aayog and other dignitaries during 94<sup>th</sup> ICAR Day Celebration at New Delhi on 16-07-2022.** Dr. K. B. Kathiria, Hon'ble Vice Chancellor AAU Anand attended this graceful ceremony

## INAUGURATION OF THE FARM BUILDING OF MAIN VEGETABLE RESEARCH STATION



Inauguration ceremony of the new farm building of Main Vegetable Research Station with the funding of RKVY-RAFTAAR Project (Research Infrastructure for Modernization of Main Vegetable Research Station, Anand) was held on 3 September, 2022 at MVRS farm, Anand Agricultural University, Anand.

**Dr. Himanshu Pathak, the Hon. Secretary of DARE and Director General of ICAR in New Delhi**, graced the ceremony as the chief guest and inaugurated the facility.

The ceremony was held in the dignified presence of Hon. Vice Chancellor, Anand Agricultural University Dr. K. B. Kathiria and Hon. Vice Chancellor, Navsari Agricultural University Dr. Z. P. Patel. The ribbon-cutting event was celebrated after the blessing rite, which involved chanting a mantra.

In this ceremony Former Hon. Vice Chancellor, Anand Agricultural University, Dr. A. M. Shekh, Dr. M. K. Zala, Director of Research, Dr. H. B. Patel, Director of Extension Education, Dr. S. N. Shah, Associate Director of Research, Dr. G. R. Patel, Registrar, Heads of Various Departments of the Anand Agricultural University and entire staff members of Main Vegetable Research Station remained present as well.

Dr. Himanshu Pathak was fascinated by this facility at the research station farm and appreciated the Hon. Vice chancellor of the Anand Agricultural University, Anand for his efforts.

The infrastructure for modernization of Main Vegetable Research Station was created with cost of 451 Lakh rupees includes green house, net house, implement shade, fodder shade, museum and training hall for farmers.



## ₹ 68 LAKH GRANT-IN-AID AWARDED TO 7 AGRI-STARTUPS INCUBATED



Anand Agricultural University is operating various Startup projects like Startup Gujarat, SSIP & RKVY - RAFTAAR Agribusiness Incubator. More than 80+ startups are already trained under these projects.

A grant of ₹ 68 Lakh was sanctioned under RKVY - RAFTAAR Agribusiness Incubator project of the Ministry of Agriculture & Farmers Welfare, Govt. of India to support 7 selected Agri-startups. The first installment of the grant was awarded to the startups by Dr. K. B. Kathiria, Hon. Vice-Chancellor, Anand Agricultural University, Anand. He applauded all the beneficiary startups for their achievement and congratulated them for their outstanding business ideas.

The felicitation ceremony was organised in the presence of Dr. M. K. Jhala, Director of Research & Dean PG studies; Dr. G. R. Patel, Registrar; Dr. Samit Dutta, Dean, College of FPT&BE and other dignitaries.

Startups beneficiaries to whom grants are awarded include Honey Veda, Vinglob Greentech, Teaology, Chlorohemp Agrotech, Masabi Agritech, Pianta Blossoms and Upadhye Farmers Support Services. These Agri-startups are working in various areas of agriculture, honey processing, oil seed extraction, food processing, agricultural implement manufacturing, waste to wealth and E-market place for farmers.

### MONITORING OF AICRP ON SEED (CROPS) BY WESTERN ZONE - II MONITORING TEAM AT AAU, ANAND



Western Zone - II Monitoring team led by Dr. Rakesh K. Kapila, CSKHPKV, Palampur and accompanied by Dr. Vinita Ramtekey, ICAR-Indian Institute of Seed Research, Mau, visited Regional Research Station, Anand Agricultural University, Anand the lead centre of 'AICRP on Seed (Crops)' on 26 September 2022. They monitored both the components of the hamely project; Quality Seed Production and Seed Technology Research, being implemented by Regional Research Station, AAU, Anand and Department of Plant Pathology, BACA, AAU, Anand respectively. During the visit the team appreciated the well-maintained seed production and processing infrastructure and its utilization.

The team also visited the seed production plots of Groundnut, Paddy and Green gram at Regional Research Station, AAU, Anand and was satisfied with the progress. The team also appreciated the large-scale breeder seed production of Anand Agricultural University, Anand. Dr. Sanjay N. Shah, Assoc. Director of Research (Agri.), AAU, Anand; Mr. Ravindra Bhati, NSC, Ahmedabad and Mr. Harpalbhai, GSSCA, Ahmedabad also joined the team during the field and plant visit. Dr. Ajay S. Bhanvadia, Research Scientist and Nodal Officer (Seed) briefed about the activities under the project and newly developed varieties of Anand Agricultural University, Anand. Dr. R. G. Parmar, Professor and Head, Dept. of Plant Pathology and Dr. N. M. Gohel, Associate Professor, Dept. of Plant Pathology outlined the activities under the Seed Technology Research component of the project. A review meeting with the monitoring team was also organized by Dr. M. K. Jhala, Director of Research & Dean, Faculty of PG Studies, AAU, Anand.

# ORGANIZATION OF WEBINARS/WORKSHOPS/SEMINARS

## NATIONAL SEMINAR ON "MODELLING TECHNIQUES FOR AGRICULTURAL APPLICATIONS"



A two-day National Seminar on "Modelling Techniques for Agricultural Applications" was organized during 5-6 August 2022 at Anand Agricultural University, Anand in collaboration with the Department of Basic Sciences and Humanities, B. A. College of Agriculture and NAHEP-CAAST Project, the World Bank Awarded Centre for Agricultural Market Intelligence.

During the inauguration of the seminar Dr. K.B. Kathiria, Hon. Vice Chancellor of Anand Agricultural University addressed the audience. Shed light on the importance of modelling techniques for agricultural applications like advisories to farmers for farm operations & many more. He also insisted on the upgradation of the system of agriculture by utilizing modern technology for development. Dr. R. K. George, Outstanding Professor and Dean (R & D, IPR), IIST, Thiruvananthapuram, Kerala was the Chief Guest & Key note speaker of the function. He gave detailed information about the basic theory of Artificial Neural Networks and discussed ways to make farming easy through the use of Artificial Intelligence & Machine Learning. Dr A. M. Shekh, the former Vice Chancellor of Anand Agricultural University, was invited as the Guest of Honour on this occasion and he emphasised the use of various mathematical models based on maths and physics to improve the agricultural production. Dr. M. K. Jhala, Director of Research, AAU, informed that AAU has started working in the direction of 'Modeling technics in agriculture by holding various collaborative research projects and started new Post Graduate course namely, Agricultural Analytics with DAICT, Gandhinagar. Dr. Y. M. Shukla, Principal and Dean of B A College of Agriculture, appreciated the planning and utility of such an event and narrated the efforts made by the college as part of the celebration of Platinum Jubilee of BACA. Dr. R.S. Pundir, Principal Investigator, NAHAP-CAAST, highlighted the activities of the project and its usefulness the P G Students & faculties.

In these two-day seminar, Dr. Avik Bhattacharya, Professor, IIT Bombay, Dr. Dipak Misra, Professor & Head, Dept. of Avionics, IIST, Thiruvananthapuram; Dr. Dharmendra Pandey, Scientist; Dr. Anand S. Sahadevan, Scientist, ISRO, Ahmedabad; Dr. Manjusha Kulshreshtha, Professor & Head, Dept. of Basic Sciences, BACA, AAU, Anand ; Dr. Mukesh Tiwari, Asst. Professor & Head, Dept. of Soil & Water Conservation Engineering, CAET, Godhara were exoerts speakers techniques. They discussed about different existing Mathematical/Statistical/ Artificial Intelligence & Machine learning technics to solve the problems related to farming/agriculture, also, showed the methods to get the soil moisture data and various crop yield affecting factors through radar remote sensing, hyperspectral remote sensing and ANN modeling.

More than 200 P.G. Students, agricultural experts, agricultural scientists and students outside of AAU enthusiastically participated in this two-day national seminar.

## WEBINAR SERIES : BUSINESS BASICS FOR AGRIPRENEURS

As a part of the "Azadi Ka Amrit Mahotsav" celebrations, with an objective to guide Agri- entrepreneurs on necessary compliances and business basics of Starting & Operating a new company, a webinar Series on "Business Basics for Agripreneurs" was organized by the Agri. & Food Business Incubator, College of Food Processing Technology & Bioenergy, AAU, Anand from 28 June to 2 July 2022. The series was organized under the guidance and support of Dr. Samit Dutta, Dean, College of FPT&BE and Dr. H. Pandey, Co-PI, RKVY R-ABI, AAU. The program began with welcome address by Mr. Nikunj Soni, Asstt. Manager, Agri. & Food

Business incubator. He briefed the entrepreneurs about the significance of this webinar series and highlighted the content of the webinar 4 distinguished professionals delivered talks on the various aspect of business formation, finances and operations. CA Shamik Ukil, Chartered Accountant & Mentor at CII, Guided participants on “Legal options for starting up a company and bookkeeping basics.” Dr. Asha Kapoor, Founder & Director at Global Solutions India, delivered a talk on ‘Building a successful team and effective HR Strategies for start-ups’ Shri Padmakumar Ananthakrishnan, Regional Director of The Alpha Group, Gave an insightful Lecture on ‘How to Build and Utilize a High-Impact Advisory Board of a Start-up company. Shri Saurabh Trivedi, Founder, IP Samadhan and an Experienced Intellectual Property Law Practitioner, Conducted an interactive workshop on “IPR protection compliances.” A total of 120+ budding entrepreneurs and early-stage start-ups from agriculture & allied sectors attended the webinar series.

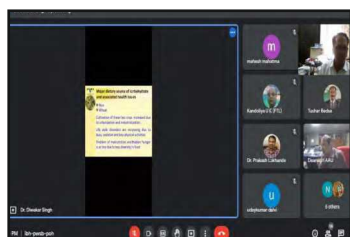
### WEBINAR ON EXPLORING AND ENLIGHTENING THE SIGNIFICANCE OF NUTRITION & HEALTH

A webinar on exploring and enlightening the significance of nutrition and health was organized by the Department of Biochemistry in collaboration with Indian Society of Agril. Biochemist on 21 July 2022 as a part of Platinum Jubilee of B. A. College of Agriculture and Azadi ka Amrut Mahostav, under the guidance of Dr. K. B. Kathiria, Hon'ble Vice Chancellor, AAU, Anand and Dr. Y. M. Shukla, Dean and Principal, BACA, AAU, Anand.

Dr. U. K. Kandolia, Associate Professor from Junagadh Agricultural University gave the nutraceutical source and its role in human health in the morning session. Dr. Mahesh Mahtama, Principal Scientist. ICAR-NRC on Seed Spices, Beaware, Ajmer explained the Biotechnological interventions for crop quality improvement and nutritional security.

Dr. Diwakar Singh, Assistant Professor, Navsari Agricultural University, Navsari suggested and elaborated millets as a tool to fight hidden hunger. He narrated how to cope up the sustainable goal with nutritional and healthy food for the recent era.

The webinar was attended by more than 100 PG Students.



### WEBINAR ON FOOD TECHNOLOGY- A TOOL FOR SUSTAINABLE AGRICULTURE

A webinar on "Food Technology- A tool for sustainable agriculture" was organized by Polytechnic in Food Science & Home Economics, AAU, Anand on 29 July 2022 as a part of Platinum Jubilee of B.A. College of Agriculture & Azadi ka Amrut Mahotsav, under the guidance of Dr. Y. M. Shukla, Dean & Principal, BACA, AAU, Anand, Dr. Samit Dutta, Dean, FPTBE and Dr. K.B. Kamaliya, Principal, Poly FSHE, AAU, Anand.

The webinar as initiated a brief introductory remark given by Dr. G. R. Jadeja, Assistant Professor, Polytechnic in Food Science and Home Economics.

Er. Rajiv Deokar from pune delivered expert lecture on environmental based food industry restoration.

The webinar was attended by 80 polytechnic students and faculty members.



### CAPACITY BUILDING WORKSHOP

Anand Agricultural University is a State Level Technical Institute for Gujarat under the Prime Minister Formalization for Micro Food Processing Enterprises (PMFME) scheme of the Ministry of Food Processing Industries, Govt. of India. The scheme aims to assist the micro-entrepreneurs from the unorganized food processing sector with up to 35% credit-linked subsidy, capacity-building training, shared infrastructure and institutional architecture to accelerate their growth. Two days capacity building training for beneficiaries of the scheme in collaboration with Gujarat Agro Industries Corporation Ltd., State Nodal Agency, PMFME was held at AAU, Anand during 5-6 August 2022.

About 25 beneficiaries from micro food processing enterprises from various districts of Gujarat attended the program. Dr. Samit Dutta, Dean, College of FPT&BE, AAU welcomed all the participants and congratulated them for



starting their businesses. Dr. M. K. Kureshi, GM, GAICL & Director, GOPCA, guided the participants on the various aspects of the PMFME scheme and encouraged them to avail themselves of the benefits of this significant government initiative and to take their business to the next level.

### WORKSHOP ON MANNA: AN IRRIGATION INTELLIGENCE SOFTWARE

Training and Placement cell, College of Agricultural Engineering & Technology, AAU, Godhra, in association with Rivulis Irrigation India Private Ltd., Vadodara conducted one-day workshop on MANNA: An Irrigation Intelligence Software on 2 September 2022 for B.Tech. Students and Faculties. The workshop served as a demonstration of the first of its kind of a software by Rivulis and as the culmination of “Connecting the Basic Studies that can be done by the Students at B. Tech level and How the same can be Extended to the Farmer through Technological Interventions” and also the advantages to the farmers or end users on using this software platform. Through this workshop, the future challenges and career scope in this field was also highlighted.



## ORGANIZATION OF TRAINING PROGRAMMES

### TRAINING ON ORGANIC FARMING

- As a part of Azadi ka Amrut Mahotsav and Platinum Jublie celebration of B. A. College of Agriculture, a training programme on “Organic Farming” was held during 4-8 July 2022 under the guidance of Hon. Vice Chancellor Dr. K. B. Kathiria at Department of Agronomy, BACA, AAU, Anand. Total 24 farmers across the Gujarat state participated in this training programme. The programme covered various aspects viz., management for nutrients, pest, agronomical practices, cow based farming management and trade etc. by different subjects experts from the University. Farmers also visited nearby places where organic farming is practiced. Certificate and liquid bio-fertilizer sample were distributed to the farmers at the end of training programme by Dr. Y. M. Shukla Agricultural faculty Dean. The programme was effectively and efficiently conducted by Dr. V. J. Patel, Professor and Head, Department of Agronomy, B. A. College of Agriculture.
- The same training was also organized during 18 - 22 July 2022 in which, total 35 farmers across the Gujarat state participated.



### TRAINING ON SEED PRODUCTION

A training programme on Seed Production was organized during 26-29 July 2022. A total 22 farmers from Ahmedabad district of Gujarat participated in this training programme. The programme covered various aspects viz., certified

seed production in cereal, pulse, oil seed, vegetable and planting materials of fruit crops. Farmers were also acquaint about the use of liquid biofertilizer, pest management during quality seed production, flower crops seed production, medicinal and aromatic plants seed production by different experts.

### TRAINING ON INTEGRATED WEED MANAGEMENT



Three training programmes on “Integrated Weed Management” were organised at AICRP on Weed Management, B. A. College of Agriculture, Anand Agricultural University, Anand (Gujarat) during 25-27 July, 07-09 September and 20-22 September 2022. Total 96 farmers participated and benefited from the trainings about the concept and components of integrated weed management.

### TRAINING PROGRAMMES BY PADDY RESEARCH STATION- DABHOI

Four training programmes were organised at Paddy Research Station, Anand Agricultural University, Dabhoi in the months from July to September. Total 96 farmers participated in



these trainings. Shri A.G. Pampaniya, Unit Head, talked about newly released paddy variety GR 21 and GAR 22 and also informed about the station activities.

### FARMERS TRAINING CUM DEMONSTRATION PROGRAMME

Department of Renewable Energy Engineering, College of Agricultural Engineering and Technology Godhra & Tribal Research and Training Centre, AAU, Devgad Baria, jointly organized One-day Farmers Training cum Demonstration Program on "Importance of Gobar gas and its utilization" under the project of "Advanced Center for Research and Trainers Training on Agricultural Engineering Based Interventions" on 2 July 2022.



### TRAINING ON BAKING TECHNOLOGY

Weekly bakery training courses were organized by School of Baking Technology, Polytechnic in Food Science and Home Economics, AAU, Anand from 02-19 July 2022. Total 139 participants were trained in 4 courses of 5 days duration each. All the participants had hands-on training of fermented products along with other contemporary bakery products. They also were introduced to preparation and baking of bakery products at home as well as on commercial platform.



### FARMERS TRAINING PROGRAMME ON 'BIO-INTENSIVE PEST AND DISEASE MANAGEMENT IN GROUNDNUT BY AICRP-BIOLOGICAL CONTROL, AAU, ANAND

One day training programme on 'Bio-intensive pest and disease management in groundnut' was organized by AICRP on Biological Control of Crop Pests, Anand Agricultural



University, Anand on 11 June 2022 in association with KVK, Dethali, Dist. Kheda, Gujarat. 25 farmers from different villages of Kapadvanj taluka, Dist. Kheda attended the programme. An input kit comprising in-house produced microbial bio-pesticides (ICAR-NBAIR strains of *Trichoderma harzianum* Th-3, *Metarhizium anisopliae* Ma-4, 1 kg each) and literature regarding biocontrol agents were distributed to the farmers.

### TRAINING ON IMPORTANCE OF BIOFERTILIZERS FOR RICE CULTIVATION

As a part of Platinum jubilee year celebration of B. A. College of Agriculture, Anand Agricultural University, Anand, Department of Agricultural Microbiology, BACA, AAU, Anand and KVK, Dethali jointly organized one day farmers training on "Importance of Biofertilizers in Rice Cultivation" at KVK, Dethali on 28 July 2022. Total 30 farmers from Dethali, Vasai, Bhalada, Sinjivada, Indravarna, Radhvanaj, Koshiyal and Udhela villages participated in training program. The program comprised of expert lectures; importance and benefits of liquid Biofertilizer usage in paddy cultivation by Dr R. V. Vyas; Azolla and its use as Biofertilizer for paddy and animal feed by Mrs H. N. Shelat; as well as application of methylotrophic bacteria for savings of chemical fertilizer inputs and mitigation of methane emission from paddy ecosystem by Dr Y. K. Jhala. The training was concluded with distribution of Methylotrophic consortium Biofertilizer kits (RKVY) to all the farmers for demonstration trials in rice field and also the Azolla seed culture for rice crop.

### TREE PLANTATION PROGRAMME AT CAET, GODHRA

A tree plantation programme was organized at College of Agricultural Engineering and Technology, AAU, Godhra on 26 August, 2022. In this program about 100 plants of "Aasopalav" were planted by the staff and students of the college all around the ground of the college. The plantation program was organized under the guidance of Dr. R. Subbaiah, Principal and Dean, CAET, Godhra and Dr. Pankaj Gupta, Prof. and Head, Deptt. of FMPE. All HoDs, Staff members and students of 5<sup>th</sup> and 3<sup>rd</sup> semester participated in the program.



## EXPERT LECTURES / GUEST LECTURES

### LECTURES UNDER PLATINUM JUBILEE CELEBRATION OF BACA

- ♦ As a part of Platinum Jubilee year of B. A. College of Agriculture, Anand Agricultural University, Anand as well as Azadi Ka Amrit Mahotsav celebration, Dept. of Animal Science, B. A. College of Agriculture, AAU, Anand organized a guest lecture on “Recent Trends in Dairy Farm Management” on 28 July 2022. Dr. K. N. Wadhvani, Research Scientist & Head, Livestock Research Station, VDU, AAU, Anand was invited as a resource person to deliver the lecture. Detailed discussion was done on latest trends in all aspect of dairy farm management i.e. feeding, breeding and housing management during the talk. Dr. D. C. Patel, Professor and Head, Dept. of Animal Science narrated relevance of the topic and introduced the guest speaker. The program was managed by Dr. R. M. Rajpura, Assistant Professor and Head, Dept. of Animal Science.
- ♦ An expert lecture on “Food Technology- A tool for sustainable Agriculture” organized by Polytechnic in Food Science and Home Economics, Faculty of FPTBE, AAU, Anand on 29 July 2022. Er. Rajiv Vasant Deokar, Pune University described the importance of food technology as a tool for sustainable agriculture.
- ♦ On 17 September 2022, a guest lecture on “*Tame j Tamaro Khajano*” was organized at College of Agriculture and Polytechnic in Agriculture, AAU, Vaso under SRC and Placement Cell. The lecture was delivered by Shri Chaitnya Sanghani, the Executive Magistrate, Collector Office, Anand and a well-known writer and philosopher. The lecture was followed by the question-answer session. The lecture mainly focused on students' overall development, knowing one's self, the importance of reading and knowing the truth of life.



was delivered by Shri Deveshbhai Patel, a Progressive Farmer and the founder of “Satva Organic”, Boriavi. The guest lecture was followed by

the question-answer session. The guest lecture mainly focused on organic farming, its benefits and challenges, value addition and marketing. The speaker motivated students for innovation and entrepreneurship development by sharing his experience of starting “Satva Organic”.

- ♦ As a part of celebration for Platinum Jubilee of B. A. College of Agriculture, an expert lecture on “Seed Industry in India: Current Status, Challenges and Future Prospects” was organized jointly by the Department of Genetics and Plant Breeding and Platinum Jubilee Celebration Committee, B. A. College of Agriculture, on 5 July 2022, Dr. P. P. Zaveri, CEO and Director, Farm Tech Biogene Pvt. Ltd., Ahmedabad was the esteemed speaker at this occasion. Dr. Y.M. Shukla, Principal & Dean, B.A. College of Agriculture, Dr. G.C. Jadeja, Ex. Principal and Dean, BACA, Heads of various departments, faculty members along with PG students attended the talk.



- ♦ As a part of celebration for Platinum Jubilee of B. A. College of Agriculture, an expert talk on “Healing Herbs of Gujarat” was organized jointly by the Department of Genetics and Plant Breeding and Platinum Jubilee Celebration Committee, B. A. College of Agriculture, on 23 August 2022 at the B. A. College. Dr. M. H. Parabia, Retd. Professor, Biosciences & Dean Science Faculty, Veer Narmad South Gujarat University, Surat, was the esteemed speaker for the occasion. Dr. Y.M. Shukla, Principal & Dean, B.A. College of Agriculture, Dr. G.C. Jadeja, Retd. Principal and Dean, B. A. College of Agriculture, Heads of various departments, faculty members, retired scientists and students of Agriculture Faculty attended the talk. Dr. M. H. Parabia, started off



nicely with brief introduction of *Ayurveda* as a science and medicinal flora of Gujarat. Medicinal Importance of various plant species, stressing on their disease specific uses, method of utilization, efficacies and side effects were discussed in depth. Emphasize was given to the feasible ways to conserve such species and explanation to the grave consequences of their extinction. Dr. G. C. Jadeja placed the concluding remarks. Dr. Y.M. Shukla, felicitated Dr. Parabia with a Memento.

- ♦ As a part of BACA Platinum Jubilee Celebration an expert lecture on 'Agriculture, Climate Change and People's Biodiversity Register', was organized by Department of Agricultural Meteorology on 27 July 2022 under guidance of Hon. Vice Chancellor, Dr K. B. Kathiria, Dr Rahul Mungikar, an eminent conservation biologist and Member of Academic Council, AAU, was invited as a resource person to deliver this lecture. The lecture by the guest speaker thoroughly covered impact of climate change especially on yield of crops, its future projection and concerns in biodiversity. He also elaborated on People's Biodiversity Register, Biodiversity record keeping and how society can contribute in keeping biodiversity register at village level.
- ♦ Onsite expert lecture on "Key role of different machineries in preparation of maida and wheat flour" at Navajeevan Maida Mill, Kumbharavada, Dahod was organized by Industry Institute Interaction Cell-IIIC on 3 September 2022 by Er. Chirag Jadav, Chairman IIIC and Assistant Professor in Mechanical Engineering of Basic Engineering & Applied Sciences Department, CAET, AAU, Godhra. Mr. Sandip Shirishkumar Sheth, Director of Navjeevan Maida Mill, welcomed everyone and started the session as an expert. He elaborated about different equipment during the maida and wheat flour making process.



- ♦ Onsite expert lecture on "Importance of wheat varieties for Maida and Wheat flour preparation" at Navajeevan Flour Mill, Padav, Dahod organized by Industry Institute Interaction Cell-IIIC on 3 September 2022 by Er. Chirag Jadav, Chairman-IIIC and Assistant Professor in Mechanical Engineering of Basic Engineering & Applied

Sciences Department, CAET, AAU, Godhra. After reaching at site factory incharge greet faculty, staff and students while briefing about the company. Mr. Shreyas Indravadan Sheth, Director of Navjeevan Flour Mill, everyone and start the session as an expert. He elaborates students about different varieties of wheat. He explain main role of wheat variety in making of maida and wheat flour. Mr. Sheth explained all the breed of wheat onsite arranged give demonstration of all of them.



### 12<sup>th</sup> DR. G. S. SEKHON MEMORIAL LECTURE

Anand Chapter of Indian Society of Soil Science, Department of Soil Science and Agricultural Chemistry, B. A. College of Agriculture, Anand Agricultural University, Anand, Gujarat organized 12<sup>th</sup> Dr. G. S. Sekhon Memorial Lecture 2022 on 6 August 2022 under the head of 'Azadi Ka Amrit Mahotsav' to commemorate the 75 years of its independence and its people, culture and achievements associated with its glorious history. The program was organized under the guidance of Dr. K. B. Kathiria, Hon. Vice Chancellor, AAU, Anand. Dr. M. K. Jhala, Director of Research & Dean PG Studies was the president of the program and in his presidential remarks, he emphasised the importance of soil science under the changing scenario of agriculture. He also discussed the importance of phosphorus in soil-plant system.

Eminent Speaker, Dr. D. Damodar Reddy, Director, ICAR-CTRI, Rajahmundry (A.P.) delivered a lecture on the topic of 'Managing Soil Legacy Phosphorus: A Promising Strategy for Efficient and Sustainable Phosphorus use in Agriculture' and gave the valuable information regarding how phosphorus



can be managed or utilized properly in agriculture. Further, Dr. K. P. Patel, Ex. Principal & Dean, BACA, AAU, Anand, Dr. V. P. Ramani, President, Dr. N. J. Jadav, Vice President, Dr. K. C. Patel, Secretary, Dr. J. K. Parmar, Joint Secretary and Dr. Dileep Kumar, Treasurer of the Anand Chapter of Indian Society of Soil Science were also present. Total 90 participants including retired professors, heads of the various departments, faculties and students were participated in aforesaid programmes.

#### INTERACTIVE TALK SERIES ON STARTUP ANAND – MEET THE STARTUPS

As a part of the “Azadi Ka Amrit Mahotsav” celebrations, with an objective to create an opportunity for budding entrepreneurs to learn from successful startup leaders on building a scalable business, An Interactive Talk Series on “#StartupAnand - Meet the Startups” was organized on regular intervals by the Agri. & Food Business Incubator, College of Food Processing Technology & Bio-energy, AAU, Anand.

The series was organized under the guidance and support of Dr. Samit Dutta, Dean, College of FPT&BE & Dr.H. Pandey, Co-PI, RKVY R-ABI, AAU. The program was initiated with the welcome address by Mr.Nikunj Soni, Asstt. Manager, Agri. & Food Business incubator, he briefed the entrepreneurs on the significance of this series and highlighted that every entrepreneur’s journey is riddled with startup lessons unique to their struggles and challenges. In ‘Meet the Startups’ series, Invited startup founders shared their business lessons and stories of struggle, learning, and success. This series was aimed at helping budding startup to learn from leaders and gain evergreen insights when it comes to growing a start-up. 5 episodes of #StartupAnand series are completed on 28 July 2022 which included meeting with Bookmy crop, dehaal, E-Fasal and BIJAK.

A total of 200+ students, budding entrepreneurs and early-stage start-ups from agriculture & allied sectors attended the series.

## CELEBRATION OF 75<sup>th</sup> INDEPENDENCE DAY

### AT AAU CAMPUS



Anand Agricultural University celebrated 76<sup>th</sup> Independence Day on 15 August 2022 at University Bhavan. University officers, Deans, staff and students remained present this celebration. Dr. K.B. Kathiria, Hon'ble Vice Chancellor, hoisted the flag and delivered a speech. He commemorated the contributions of freedom fighters of our country and paid homage to them. He also urged the university officers, staff and students for further enhancement in the field of education, research and extension. Captain P.A. Gohil served as Parade Commandant and Dr. J.I. Nanavati served as the announcer on the occasion. The entire programme was organized by Dr. Dinesh H. Patel. Director, Students' Welfare.

### AT CAET, AAU, GODHRA

The 76<sup>th</sup> Independence Day was celebrated at the College of Agricultural Engineering & Technology, AAU, Godhra. The National Flag was unfurled by Dr. R. Subbaiah, Principal and Dean, CAET, Godhra followed by National Anthem and Jhanda Geet. Dr. R. Subbaiah, congratulated and offered his best wishes to all for 76<sup>th</sup> Independence Day in his speech. He highlighted the college achievements and elaborated the path of development of college to be achieved.



### AT CoA, AAU, VASO

The 76<sup>th</sup> Independence Day was celebrated at College of Agriculture and Polytechnic in Agriculture, AAU, Vaso. All other officers, teachers, staff members, farm labourers and family members of the faculty participated in the celebration. Dr. V. P. Ramani, the Principal of the colleges, conveyed the best wishes on the Independence day.



## CELEBRATION OF VARIOUS DAYS

### CELEBRATION OF FORAGE DAY



All India Coordinated Research Projects - Forage Crops and Utilization is implemented since 1970 at the Anand Agricultural University, Anand, Gujarat. ICAR-AICRP on Forage Crops and Utilization decided to celebrate 'Forage Day' at each centre of Forage Crops all over the India. A Forage Day was organized by Main Forage Research Station, Anand Agricultural University, Anand on 9 September 2022. Dr. K. B. Kathiria, Hon. Vice Chancellor of Anand Agricultural University, Dr. M. K. Jhala, Director of Research, Dr. K. C. Patel, Unit officer, ICAR Unit-9, Dr. D. P. Gohil, Research Scientist and Head, Main Forage Research Station, Dr. H. K. Patel, Assistant Research Scientist and Farm Manager, Heads of various ICAR units and 50-55 farmers associated with animal husbandry were remained present in this programme. Dr. D. P. Gohil delivered the opening remarks. Dr. M. K. Jhala, Director of Research to guide and sensitize the farmers of forage production at the national level. Dr. K. B. Kathiria, Hon. Vice Chancellor, highlighted on the quality green fodder, dry fodder, feed and mineral mixture are given in proportion to the animals in the animal husbandry and improvement in results in maximum milk

production and at the same time the growth, development, fertility and health of the animals. He also stressed on increasing milk productivity at par with the global standards. Also narrated importance of planning fodder production using quality seeds of high yielding improved varieties of different fodder crops. At last, the dignitaries present in the program distributed the rooted slips of the perennial crop-Hybrid Napier : CO(BN)-5 and related literature to all the farmers.



### CELEBRATION OF ENGINEER'S DAY



- ♦ The SRC & NSS Unit of Polytechnic in Agricultural Engineering, AAU, Dahod celebrated Engineer's Day in collaboration with Krishi Vigyan Kendra, AAU, Dahod on 15 September 2022 in honor of Dr. M Visvesvarayya. The main objective of the event was to encourage self evaluation, motivation, effective communication and team building among the students.

- ♦ The College of Agricultural Engineering & Technology, Godhra and Indian Society of Agricultural Engineers, Anand Chapter celebrated "Engineer's Day, 2022" at Conference Hall, CAET Godhra. The program started with lighting the lamp by Dr. R. Subbaiah, Principal and Dean, CAET, Godhra, Dr. S. S. Kapdi, Chairman, ISAE, Anand Chapter along with all dignitaries.

Dr. S. S. Kapdi informed about the activities of ISAE and encouraged students to become a member of society.

In his speech, Dr. R. Subbaiah elaborated the importance of studying new and emerging technologies in the field of engineering in general and specifically in the field of agricultural engineering. He also asked students to work on the innovative ideas and come with some start up in the line with "Aatmanirbhar Bharat" movement.



### CELEBRATION OF TEACHER'S DAY AT CoA, AAU, VASO

On 5 September 2022, Teacher's Day was celebrated in fond memory of India's second President Dr. Sarvpalli Radhakrishnan, at College of Agriculture and Polytechnic in Agriculture, AAU, Vaso under the NSS programme. The students of college played the role of teachers and at the end of the day, the best three students of both colleges were awarded the "Best Teacher" certificates.



### CELEBRATION OF TEACHER'S DAY AT CAEA, AAU, GODHRA

The students of the College of Agricultural Engineering and Technology, AAU, Godhra also celebrated Teachers day to pay their tribute to Dr. S. Radhakrishnan and to pay their respect to all distinguished Teachers and Staff of the college. In the morning session, ten students Teachers and took the classes of different subjects in second and third year. In the Afternoon session, All present Staff members were felicitated by offering flowers as a token of respect and love. The students expressed their respect by presenting the poem written by them on the "Teacher" and delivered the speeches on memoirs of Dr. S. Radhakrishnan and their wholehearted feelings about "Teacher". Some of the staff members and HOD's expressed their views about 'Teacher's Day'. The Certificates and prizes were also distributed to the winners of the different competitions hold during last year under "Azadi ka Amrit Mahotsav" program.



### CELEBRATION OF TEACHER'S DAY AT POLY. TECH. IN AGRIL. ENGG., AAU, DAHOD

- ♦ The SRC unit of Polytechnic in Agricultural Engineering, AAU, Dahod and Krishi Vigyan Kendra, AAU, Dahod jointly organized "Teachers Day" on 5 September 2022. On this auspicious occasions students participated in two programmed viz., "Experiencing in Teaching" and "Teachers day: A broad prospective for building the nation". In the morning session, students participated in experiencing teaching Dr. H. L. Kaccha, Unit Head, KVK, Dahod in his address stated that events provides a platform for the students to display their innate talents need to be encouraged. Dr. B. K. Yaduvanshi, SRC



Chairman spoke on the inherent qualities to be a successful teacher. Dr. M. M. Trivedi, Principal, in his presidential address urged the teachers to add value to their pedagogy through experimental learning. In the evening, participants took part in elocution under the theme of "Teacher's day: A broad prospective for building the nation." All the participants were provided with certificates of appreciations.

### CELEBRATION OF NSS DAY AT CoA, AAU, VASO



On 23 September 2022, College of Agriculture and Polytechnic in Agriculture, AAU, Vaso celebrated NSS Day in the auspicious presence of Dr. D. H. Patel, the Director of Students' Welfare, AAU, Anand. An elocution competition under the "Climate Change Youth Outreach Fortnight Programme" was also arranged as the celebration of NSS Day. The first three winners of the competition were awarded certificates by Dr. D. H. Patel, DSW, AAU, Anand and Dr. V. P. Ramani, Principal of the college. Dr. D. H. Patel, in his address to the NSS volunteers, motivated students to serve the nation with encouraging words.

### CELEBRATION OF NSS DAY AT CAIT, AAU, ANAND

College of Agricultural Information Technology National Service Scheme (NSS) celebrated NSS Day on 23 September 2022. The day commenced with multiple activities like campus cleaning, Rangoli and in the noon college invited snake awareness volunteers. The event included with various literary activities such as elocution and poster drawing to have awareness about NSS to the students. All volunteers and students participated with enthusiasm. Dr. D. R. Kathirya, Principal and Dean and Dr. D. K. Parmar, Programme officer congratulated and motivated students.

### CELEBRATION OF RAKSHABANDHAN AT CoA, AAU, VASO

*Rakshabandhan* marks the sacred bond of trust between brother and sister. Every year, the girl students and staff-members of College of Agriculture & Polytechnic in Agriculture, AAU, Vaso celebrates this festival by sending *Rakhis* to our *Jawans*, students whose shielding hands give us a better and safer life. This year too, as a token of love and trust, the girl students and staff-members of College of Agriculture & Polytechnic in Agriculture, AAU, Vaso sent *Rakhis* to our brave soldiers of Dras Sector, Kargil.



## AWARENESS PROGRAMMES

### FARMERS' AWARENESS PROGRAMME ON WEATHER SERVICES TO AGRICULTURE

A farmers' awareness programme on "Weather Services to Agriculture" was organized at as a part of celebration for Platinum Jubilee of B. A. College of Agriculture as per the guidance of Hon. Vice Chancellor Dr. K B Kathiria. The programme was organized by Department of Agricultural Meteorology, B. A. College of Agriculture, AAU, Anand At College of Agriculture, AAU, Vaso on 11 July 2022. Progressive farmers from Vaso, Rampur, Palana and Bamroli villages of Kheda district participated in the programme. Dr. H. B. Patel, Director of Extension Education, Dr. Y. M. Shukla, Principal and Dean, BACA, Mr. Amit Patel from the District Agricultural Department graced the programme. The programme was initiated with the introductory address by Dr. Manoj Lunagaria, Professor and Head, Department of Agricultural Meteorology, B. A. College of Agriculture. The lectures on government schemes to promote agriculture, efficient animal husbandry, plant protection during monsoon, balance nutrient



inputs to kharif crops and weather based agromet advisoty services etc. were delivered by Mr. Amit Patel, Agricultural officer; Dr. M. N. Jagoda, Assistant Professor (Animal Science); Dr. C. B. Varma, Assistant Professor (Entomology), Dr. S. B. Yadav, Assistant Professor (Agril. Meteorology) and Dr. V. P. Ramani, Principal, College of Agriculture, Vaso; respectively. A session was also devoted to college farmers' perception on weather and climate change.

### NEMATODE AWARENESS DAY FOR TRIBAL FARMERS UNDER TSP AT KRISHI VIGYAN KENDRA, DAHOD

As a part of Platinum Jubilee of Bansilal Amrutlal College of Agriculture and Azadi ka Amrit Mahotsav, a training programme on Nematode Awareness Day for Tribal Farmers was organized on 13 July 2022 at Krishi Vigyan Kendra, Dahod to create awareness among the tribal farmers about nemic problems in different fields and horticultural crops, wherein 40 tribal farmers participated.

Different lectures concerned to subject as well as short video film on various aspects of nematodes was shown to the farmers. Furthermore, one folder on *Rakshit Khetimaa Krumithi thathu Nuksan Ane Tenu Vayavasthapan* was released in the Gujarati language by the revered hands of Dr. Y. M. Shukla, Principal and Dean, BACA, AAU, Anand. The programme remained effective in providing a roadmap for managing nematode infested field especially in the tribal belt of Dahod district.



### BIO-AGENTS AWARENESS WEEK

- During the fourth week of September (26 to 30 September 2022), AICRP on Biological Control of Crop Pests, AAU; Anand Center conducted a "Bio-Agents Awareness Week". The program's prime objective was to educate farmers on the significance of the bioagent Trichogramma in conventional and organic farming. The various villages of Anand, Umreth and Tarapur taluka of Anand district were covered in this awareness campaign. Initially, the farmers were informed about



'TRICHOCARD', its importance, usage and availability. The method of release of Trichogramma/Trichocard was demonstrated in rice, brinjal, castor and cauliflower crops. Important literature pertaining to the basics and conservation of bio-agents, on-farm production/enrichment of bio-pesticides were distributed as well. An approximate area of 10 ha was covered under this programme.

- AICRP on Biological Control of Crop Pests, Anand Agricultural University, Anand has conducted 'Bio-agents Awareness Week' during the fourth week of August (22 - 26 August 2022). The main objective of the programme was to sensitize the farmers on importance of bio-agent Trichogramma in organic/conventional agriculture. The various villages of Anand, Umreth and Tarapur taluka of Anand district were covered in this awareness campaign. Initially, the farmers were informed about 'TRICHOCARD', its importance, usage and availability. The method of release of Trichogramma/Trichocard was demonstrated in rice fields. Further, on-farm enrichment of microbial bio-pesticide *Trichoderma viride* and *Metarhizium anisopliae* was demonstrated and pertinent kit was distributed to the farmers. Important literature pertaining to the basics and conservation of bio-agents, on-farm production/enrichment of bio-pesticides were distributed as well. An approximate area of 15 ha was covered under this programme.



### 17<sup>th</sup> PARTHENIUM AWARENESS PROGRAMME

In view of the seriousness and magnitude of the threat posed by parthenium weed AICRP-Weed Management, AAU, Anand and Krishi Vigyan Kendra, AAU, Dahod & NSS Unit, PAE, AAU, Dahod jointly organized mass awareness programme under "Parthenium Awareness Week" from 16-22 August 2022 to educate the farmers and students about the harmful effects of Parthenium and ways of its management. Dr.M.M.Trivedi, Principal explained the nature of the weed, its effects on crop production, human and animal health. Dr.R.G.Macchar, Unit Head, ARS emphasized that the campus should be made Parthenium free. Shri D.D.Chaudhari, Weed Control Management, AAU, Anand, & as special guest gave detailed account of management of this obnoxious weed by chemical control, biological control (*Cassia tora*, marigold and *Zygogramma bicolorata*) and utilization of this weed by

vermicomposting and also cautioned the students/farmers about its harmful effect and advocated its eradication on campaign basis and also educated the people about this weed. Around 50. NSS volunteers, staff members and farmers were participated in this programme.



## CELEBRATION OF POSHAN ABHIYAN AWARENESS

The month of September every year is celebrated as the *Rashtriya Poshan Maah* or the National Nutrition Month across the country. The NSS Unit, Polytechnic in Agricultural Engineering, AAU, Dahod celebrated Poshan Abhiyan (NATIONAL NUTRITIONAL MISSION) awareness on 28 September, 2022. The NSS volunteers organized rally and visited the area in and around Moti Sarsi village and interacted with the local people and raised awareness through poster, slogan etc. The volunteers conducted a survey on the food habit and nutritional practices among the local community. Dr. B. K. Yaduvanshi, Assistant Professor and I/c Principal addressed the students on the importance of healthy food leading to a healthy body and healthy mind. Total 40 NSS Volunteers and NSS staff members participated in this programme.

## ACTIVITIES OF INFORMATION TECHNOLOGY CENTER

### Technical support and Infrastructure - Live Streaming

IT center facilitated the different departments for conducting the online workshop, webinar, training, meeting, and live streaming of various events.

### NAHEP CAAST Certificate Course (6 August to 22 October 2022)

Twelve (12) week certificate course on “Data Analytics using Python” organized by NAHEP-CAAST is currently running at the computer laboratory of the Information Technology Center.

### Online exam

Online Objective Examination System developed and managed by the IT center is used by different departments/colleges of the AAU. Students are benefitted from this online exam.

### Recruitment/Online Exam

In the month of June, various online/recruitments exams were conducted at the computer laboratory of the Information Technology Center.

1. D to D Online Entrance Examination, dated 2 August 2022, for
  - a. Agriculture
  - b. Food Technology
  - c. Agriculture Engineering / RE / EE
  - d. Horticulture
2. Online Examination for Placement (IABMI), dated
3. PG Exam Entrance Test, dated 24 September 2022

## CERTIFICATE COURSES

### CERTIFICATE COURSE ON INTEGRATED NUTRIENT MANAGEMENT FOR INPUT DEALERS



Institute of Distance Education Anand (IDEA), Anand Agricultural University, Anand organized a 15 day residential certificate course for fertilizer input dealers from 8 August 2022 to 7 September 2022 (1<sup>st</sup> Batch). During this course, 38 trainees from

different districts of middle Gujarat viz. Anand, Botad, Dahod, Mahisagar, Vadodara, Panchmahal and Chhotaudepur actively participated. Trainees were taught different aspects of integrated nutrient management and maintenance of soil health.

Dr. K. B. Kathiriya, Hon. Vice Chancellor of Anand Agricultural University, Anand awarded certificates to the fertilizer dealers and appealed them to use the knowledge for the welfare of farmers. Agricultural books, folders on different subjects and issues of Krishigovidya monthly magazine were provided by Anand Agricultural University to the trainees.

## CERTIFICATE COURSE ON DATA ANALYTICS USING PYTHON



A Certificate Course on "Data Analytics using Python" was successfully conducted from 6th August to 22nd October, 2022 by Centre for Agricultural Market Intelligence under NAHEP-CAAST, International Agri-Business Management Institute, Anand Agricultural University, Anand at IT Centre, AAU, Anand. Dr. D. R. Kathiriya, Director, IT Centre, AAU and Course Director, welcomed the dignitaries and participants, and described the significance of the course. Dr. R. S. Pundir, Principal & Dean, IABMI and PI, NAHEP-CAAST, AAU gave a brief overview of the project objectives and activities. The Chief Guest of the program, Dr. M. K. Jhala, Director of Research and Dean of Graduate Studies, AAU emphasized on various Python libraries such as Numpy, Pandas, SciPy, etc. He also highlighted the use of Matplotlib library for data visualization. Dr. K. B. Kathiria, Hon. Vice Chancellor, AAU, Anand emphatically mention in his address the significance of data analysis in all subject of agriculture. Further, he elaborated the new PG program on Agriculture Analytics jointly launched by DAICT, Gandhinagar and IIRS, Dehradun. He told that this is the first unique PG program of its kind at national level. The inaugural session was ended with the vote of thanks by Dr. Chetan Dudhagara, Course Coordinator.

Total 48 technical sessions were conducted by external and internal resource persons followed by Q & A and feedback sessions. Total 55 participants including 02 faculties and 53 PG students attended the certificate course.



## CERTIFICATE DISTRIBUTION PROGRAMME OF POLYTECHNIC COLLEGES OF AAU



On 4 August 2022, a certificate distribution programme for passed-out students of the academic year 2021-22 of all polytechnic colleges of Anand Agricultural University was organized in presence of Hon. Vice-Chancellor, Dr. K. B. Kathiria, AAU, Anand; Shri. K. L. Bachani (IAS), Collector, Kheda District; Shri. B. S. Patel, Deputy Collector, Kheda District; Dr. M. K. Jhala, Director of Research, AAU; Dr. H. B. Patel, Director of Extension Education, AAU; and Dr. G. R. Patel, Registrar, AAU. Certificates as well as five gold medals were awarded to the respective students. Students were motivated by the encouraging words of the guests on this occasion.

## CERTIFICATE DISTRIBUTION PROGRAMME OF GREEN HOUSE / NET HOUSE TRAINING



Institute of Distance Education (IDEA), AAU, Anand organized a 15-day training programme on Green house/Net house farming for farmers during 25 July 2022 to 8 August 2022. Total 49 progressive farmers from different districts of Gujarat viz., Kheda, Anand, Vadodara, Dahod, Panchmahal, Mahisagar, Ahmedabad, Botad, Gandhinagar, Aravalli, Sabarkantha, Bhavnagar and Rajkot participated enthusiastically in the training.

The certificate distribution programme of the said training programme was organized under the chairmanship of Hon. Vice Chancellor, AAU, Anand Dr. K. B. Kathiria. The feedbacks of the trainee farmers were also taken at the end of the programmes, wherein all the farmers expressed their satisfaction with the knowledge gained and also committed to commence the methods and practices of green net/ house farming on his/her own farm. During the certification distribution ceremony, Dr. M. K. Jhala, Director of Research; Dr. H. B. Patel, Director of Extension Education; Dr. N. I. Shah, Dean, College of Horticulture; Dr. S. D. Patel, Director, IDEA and Dr. G. N. Thorat, Assistant Professor, IDEA remained present.

## CLOSING CEREMONY OF PLATINUM JUBILEE YEAR



Platinum Jubilee Year of establishment of B. A. College of Agriculture, was celebrated as 'Amrit Mahotsav'. A year long celebration had started from 11 August 2021. The closing ceremony was organized on 3 September 2022 under the presidentship of Dr. K. B. Kathiria, Hon. Vice Chancellor, Anand Agricultural University, Anand. The closing ceremony was glorified by the august presence of **Dr. Himanshu Pathak, Secretary, DARE and Director General ICAR**, the special guest Dr. Z. P. Patel, Vice-Chancellor, Navsari Agricultural University, Navsari and Dr. M. K. Jhala, Director of Research and Dean PG Studies, AAU, Anand. In his welcome address, Dr. Y. M. Shukla, Principal and Dean, B. A. College of Agriculture described of the history of BACA and its progress as well as presentation of the different events and publications in the form of a short video. In presidential address Dr. K. B. Kathiria, narrated that keeping in view of golden history of college, team of scientists are working enthusiastically to find out the solutions for the future challenges in agriculture as well as for implementation of new education policy for generating skilled manpower and providing maximum benefit to the students. He spoke about the outstanding features of the younger generation and expressed his full confidence in the team of BACA and they will achieve many more recognitions within next 25 years. He said that AAU has always been and will continue to be a leader for nation development. Dr. Himanshu Pathak, Secretary, DARE and Director General, ICAR expressed his heartfelt feeling of joy for visiting the historic college in the land of Shri Sardar Patel and he named this as visit of pilgrim place for the agricultural professional. He praised the futuristic views of Hon. Vice-Chancellor, Dr. K. B. Kathiria and his outstanding insight for modern challenges simultaneously with establishment of heritage museum for conservation of prestigious things. Dr. Z. P. Patel, Hon. Vice-Chancellor, Navsari Agricultural University expressed his joy of being an alumni of college and shared his personal experience during his educational life at the college. He said that every student is having pride in their heart for mother institute and stressed to do all the efforts for betterment of the

college. Shri. Amitbhai Sheth, a member of donor family, expressed his pleasure for success of the college and strengthening farmers of nation and making dream come true of Late Sheth Shri Amrutlal Hargovinddas Sheth. Dr. M. K. Jhala, Director of Research and Dean PG Studies encouraged faculties and students for achieving all the targets and assignments with outstanding contribution in field of agriculture. He also urged to young generation to devote for making India self-reliant by keeping the proud heritage in our hearts. The different publications of college were unveiled by dignitaries. Congratulatory messages received from from Shri. Amit Shah, Home Minister, Government of India and other dignitaries for the celebration were read out. The entire program was organized under constructive guidance of Dr. K. B. Kathiria, Vice-Chancellor and Dr. Y. M. Shukla, Principal and Dean (Agri.), BACA, AAU, Anand. Former deans and principals of this college were felicitated by team of BACA for their contribution during their tenure. Shri Amitbhai Sheth member of donor family was also felicitated.

### CLIMATE CHANGE YOUTH OUTREACH PROGRAMME



College of Agriculture and Polytechnic in Agriculture, AAU, Vaso organized different competitions eg. a slogan writing, essay writing competition, innovative idea on climate change and group discussion under Climate Change Youth Outreach Programme on 27 September 2022. The students of both of the colleges enthusiastically participated in this programme focusing on different topics related to climate change viz., environment, climate change, forest, biodiversity, renewable energy, natural farming, soil conservation, air pollution and waste management under these different competitions. The students were awarded first, second and third-rank certificates in each competition.

### EXTENSION ACTIVITIES BY ARS, SANSOLI

Four different Training Programmes were organized by Agricultural Research Station, AAU, Sansoli. Total 292 male farmers of Kheda, Mahemdavad taluka of Kheda district remained present.

Two different farmers-scientist interaction programmes were organized by Agricultural Research Station, AAU, Sansoli. Total 37 farmers of Mahemdavad taluka of Kheda district remained present.

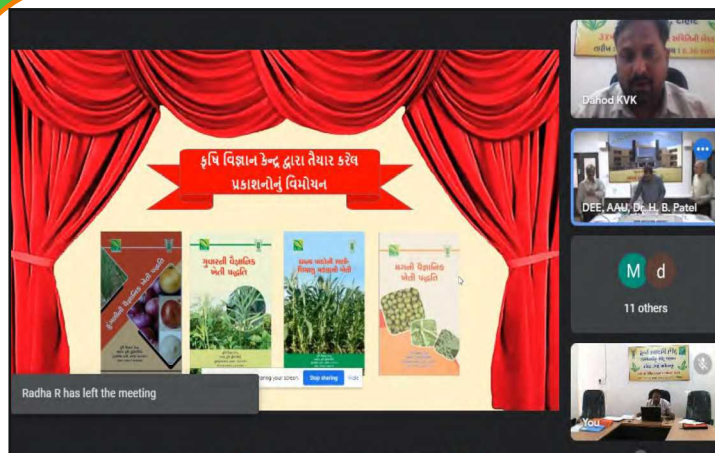
Two different farmers camp programmes were organized by Agricultural Research Station, AAU, Sansoli in which 135 farmers of Mahemdavad taluka of Kheda district remained present. Lectures on different aspects viz., procedure of soil sampling, farm management, value addition, package of practices of various crops, Integrated Pest Management (IPM), etc. were delivered by scientists of the centre.



### 34<sup>th</sup> SCIENTIFIC ADVISORY COMMITTEE MEETING OF KVK, AAU, DAHOD



The 34<sup>th</sup> Scientific Advisory Committee meeting of Krishi Vigyan Kendra, Anand Agricultural University, Dahod was held in the virtual mode on 20 September 2022. The meeting was presided over by the Chairman of the committee, Hon. Vice Chancellor, Dr. K. B. Kathiria. The meeting was co-chaired by Director of Extension Education, Dr. H.B. Patel. Also, Director of Research and Dean P.G. Studies, Dr. M.K. Jhala also meeting present. Among other members of the Committee, twelve members attended the meeting. The Committee's Farmer Representative and Progressive Farm Women of Dahod District, Mrs. Fulvantiben and



Mrs. Bakulaben, also attended the same. The meeting started with the AAU university song followed by the welcome address by Dr. H.L. Kacha, Senior Scientist & Head, KVK, AAU, Dahod. Thereafter, the action taken report of 33<sup>rd</sup> SAC meeting was presented for approval and was approved by the committee. Further, the work done report of KVK, AAU, Dahod from April 2021 to August 2022, was presented, followed by the action plan for 2022. After the presentation was completed, valuable suggestions were made by the Chairman, Hon. Vice Chancellor, Dr. K.B. Kathiria. Interacted with Farmer representing, inquiring them about their involvement with KVK, Dahod, and constraints faced by them if any.

### FARMERS' MEET AND INPUT DISTRIBUTION PROGRAMME BY AICRP, BIO CONTROL, AAU, ANAND

- Farmers' meet and input distribution under ICAR-Tribal Sub Plan (TSP) programme was organized by AICRP on Biological Control of Crop Pests, Anand Agricultural University (AAU), Anand on 20 July 2022 in association with Tribal Research-cum-Training Centre (TRTC), AAU, Devagadh Baria, Dahod. Thirty farmers from Paniyaa village of Limkheda taluka, Dist. Dahod attended the programme. Input kit comprising seeds of vegetable



crops intended for kitchen gardening, in-house produced microbial bio-pesticides (ICAR-NBAIR strains of *Trichoderma harzianum* Th-3, *Metarhizium anisopliae* Ma-4, and *Bacillus thuringiensis* BTG-4 1 kg each), bio-fertilizer (AAU BioNPK) and literature regarding biocontrol agents were distributed to the farmers.

- Farmers meet and input distribution under ICAR-Tribal Sub Plan (TSP) programme was organized by AICRP on Biological Control of Crop Pests, Anand Agricultural University (AAU), Anand on 30 August 2022 in association with Tribal Research-cum-Training Centre (TRTC), AAU, Devagadh Baria, Dist. Dahod. 25 farmers from eight different villages of Devagadh Bariya taluka attended the programme. Input kit comprising Knapsack sprayer, PPE kit and in-house produced microbial bio-pesticides (ICAR-NBAIR strains of *Pseudomonas fluorescens* PFDWD and *Bacillus thuringiensis* BTG-4) and literature regarding biocontrol agents were distributed to the farmers.



## STUDENTS' CORNER

### EXPOSURE VISIT OF IABMI STUDENTS AT 11<sup>TH</sup> AGRI ASIA EXHIBITION, GANDHINAGAR

On 9 September, 2022 students of International Agri-Business Management Institute, AAU, Anand visited 11<sup>th</sup> Agri Asia Exhibition at Gandhinagar. In the exhibition, more than two hundred agriculture and allied sectors companies participated. Students visited different stalls and acquainted with new technology in agriculture and allied sector and also linked with the companies and agri startups.



### INDUSTRIAL VISIT OF PANCHAMRUT DAIRY

An industrial visit of Panchamrut Dairy (The Panchmahal District Co-operative Milk Producers' Union Ltd). Lunawada Road, Godhra, was organized by Industry Institute Interaction Cell-IIIC on 19 September 2022 by Er. Chirag Jadav, Chairman IIIC and Assistant Professor, CAET, Godhra. 40 students of third and fifth semester from CAET attended this visit.



### VISIT BY STUDENTS OF BIRSA AGRICULTURAL UNIVERSITY, JHARKHAND AND RABINADRANATH TAGORE UNIVERSITY, MADHYA PRADESH

Laboratory for Micronutrient Soil and Water Testing (ICAR), AAU, Anand was visited by 98 students and faculties from Birsa Agricultural University, Godda (Jharkhand) and Rabinadranath Tagore University, Bhopal (Madhya Pradesh) under the Educational Tour programme of B.Sc. (Agri.) on 26 September 2022. Students were informed about various research activities and sophisticated analytical instruments.



## ACTIVITIES OF SARDAR SMRUTI KENDRA



Dr. V.P. Chahal, Assistant Director General (Agricultural Extension), ICAR, New Delhi visited Sardar Patel Agricultural Educational Museum during KVK zonal workshop on 8 July 2022.



Training Programme (3 day) organized by Sardar Smruti Kendra, DoEE, AAU, Anand on “Advance practices and technology for cotton crop” during 20-22 July 2022 for the Farmers group of Dhasa, Dist. Botad, Gujarat.



One day Interstate Training Programme organized by Sardar Smruti Kendra, DoEE, AAU, Anand on “Modern Agriculture and Animal Husbandry” on 17 September 2022 for the Farmers group of ATMA Bhopal, (M.P.).



Students of Birsa Agricultural University, Godda campus, Ranchi, Jharkhand visited at Sardar Patel Agricultural Educational Museum during their educational tour on 8 July 2022.

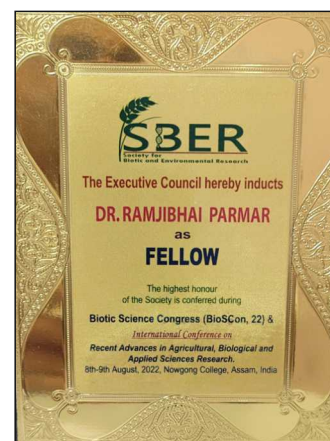
## OUR PRIDE

- Dr. R. G. Parmar was awarded “Shri Varadhbhai Ambaidas Best UG Teacher Award for academic year 2021-22 by BACA Alumni association in the 14<sup>th</sup> Diwakar Patel memorial lecture held on 12 September 2022 at BACA, AAU, Anand



- The 5<sup>th</sup> Annual Zonal Workshop of KVKs (ATARI - Pune, ICAR) was organized from 7 - 9 July 2022 at Anand Agricultural University, Anand. 'Best Presentation Award' was conferred upon KVK, AAU, Dahod on 9 July 2022, by Dr. K.B. Kathiria, Hon. Vice-Chancellor, Anand Agricultural University, Anand, in the presence of Dr. V.P. Chahal, Hon. Assistant Director General (AE), ICAR, New Delhi, Dr. Lakhan Singh, Hon. Director, ICAR-ATARI, Pune, all DEEs of SAUs, and Senior scientist and Heads of KVKs of Gujarat, Maharashtra and Goa. Furthermore, six publications of KVK, AAU, Dahod in Gujarati language were released.

- Dr. R. G. Parmar is awarded “Fellow of Society for Biotic and Environmental Research during Biotic Science Congress (BioSCon, 2022) and International conference on Recent Advance in Agriculture, biological and applied science research held at Nowgong College, Assam during 8-9 August 2022.



- Dr. Vidyadhar Vaidya, Former Adhyaksh Vigyan Gurjari, National Governing Council Member is appointed as Executive Committee Member of Gujarat Council of Science City. He is presently working as Assistant Professor of Agrometeorology in Department of Agriculture Meteorology, BACA, AAU, ANAND since last 16 years.



### PUBLICATION OF FARM MAGAZINE



The Publication Unit, DoEE, AAU, Anand publishes the monthly farm magazine 'Krushigoviddya' regularly for the benefit of the farming community since May 1948. There are 9,000 subscribers of this multicolored farm magazine as on September 2022.

### RETIREMENTS

#### July 2022

- 1 Jaydevbhai Rasikbhai Kanani, Junior Clerk, BACA, Anand, Resignation

#### August 2022

- 2 Shri K.S. Vasava, Khet majur (Kalam-1), Pulse Research Station Vadodara, Retired
- 3 Dr. A. C. Vaidhy, Senior Scientist, KVK, Devataj, Retired
- 4 Shri N. J. Parmar, Agri Assistant, Vegetable Research Station, Anand, Retired

#### September 2022

- 5 Shri J. B. Mishtri, Tracer, Office of the Executive Engineer, Anand, Retired
- 6 Shri B.K. Sarvaiya, Junior Clerk, Khambholaj, Retired

*"He that can have patience can have what he will"*

*-Benjamin Franklin*



From :  
The Editor  
AAU Newsletter

Directorate of Extension Education, University Bhavan, Anand Agricultural University, Anand-388 110, Gujarat

### PATRON

Dr. K. B. Kathiria  
Vice Chancellor

### EDITORIAL BOARD

Dr. M. K. Jhala  
Chairman  
Dr. H. B. Patel  
Vice Chairman

### MEMBERS

Dr. Y. M. Shukla  
Dr. N. I. Shah

### EDITOR

Dr. Samit Dutta

### CO-EDITORS

Dr. Bhavin Ram  
Shri P. C. Patel

### ASST. EDITORS

Shri S. A. Sipai  
Shri S. R. Luhar

### A Quarterly Newsletter

Published by

The Directorate of Extension Education  
Anand Agricultural University  
Anand - 388 110

✉ aaunews@aaui.in

📘 facebook.com/anandagriuni

🐦 twitter.com/anandagriuni

Website : www.aau.in

### For Office Use Only

Book-Post

To,