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Department of Soil Science and Agricultural Chemistry
CENTRE OF ADVANCED FACULTY TRAINING

Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur– 482 004 (M.P.)
Sardar Patel Outstanding ICAR Institution Award – 2018 (SAU Category)

ACHIEVEMENTS

Date of start	: February, 1995
Name of CAFT	: SOIL SCIENCE
Name of University /Institution	: Department of Soil Science and Agricultural Chemistry, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) – 482 004
Number of training organized	: 34
Total Number of Participants	: 686

Details of Trainings conducted

S. No.	Year	Titles of the Trainings	Period	No of Participants	Director
1.	1995-1996	Soil and plant testing for maximizing crop production.	22.01.1996 to 05.02.1996	19	Dr. V. S. Tomar
2.	1996-1997	Management of soil physical conditions for sustainable agricultural production.	22.07.1996 to 05.08.1996	32	Dr. V. S. Tomar
3.	1996-1997	Role of micronutrients and microorganisms in sustaining soil productivity	05.02.1997 to 19.02.1997	21	Dr. B. R. Tembhare
4.	1998-1999	Organic agriculture : an ultimate food production system	08.09.1998 to 22.09.1998	27	Dr. B. R. Tembhare
5.	1998-1999	Management of problematic soils	23.02.1999 to 09.03. 1999	25	Dr. D. L. Kauraw
6.	1999-2000	Integrated plant nutrient management for sustainable crop production.	04.08.1999 to 24.8.1999	20	Dr. D. L. Kauraw
7.	1999-2000	Instrumental methods of analysis in agricultural research	25.02.2000 to 16.03.2000	18	Dr. D. L. Kauraw
8.	2000-2001	Diagnosis and improvement of problematic soils.	18.09.2000 to 16.09.2000	20	Dr. D. L. Kauraw
9.	2000-2001	Resource management under intensive cropping system.	14.02.2001 to 15.03.2001	19	Dr. D. L. Kauraw
10.	2001-2002	Resource management for sustainable rainfed cropping system.	21.08.2001 to 19.09.2001	17	Dr. D. L. Kauraw
11.	2001-2002	Organic agriculture : a paragon for sustainability	26.03.2002 to 15.04.2002	28	Dr. D. L. Kauraw

12.	2003-2004	Management of Micronutrients and Pollutants in Agriculture	11.12.2003 to 31.12..2003	14	Dr. D. L. Kauraw
13.	2003-2004	Soil Health & Product Quality under Organic Agriculture.	22.01.2004 to 11.02.2004	26	Dr. D. L. Kauraw
14.	2004-2005	Use of Radio Isotopes in Agriculture Research and Development.	22.09.2004 to 12.10.2004	14	Dr. D. L. Kauraw
15.	2005-2006	Role of Macro / Micronutrients and Pollutants in Management of Soil Health and Sustaining Agricultural Production	24.11.2005 to 14.12..2005	24	Dr. D. L. Kauraw
16.	2005-2006	Impact and Contributions of Analytical Procedures for Agricultural Inputs and Products on Soil Health and Sustainability of Agricultural System.	02.02.2006 to 22.02.2006	14	Dr. D. L. Kauraw
17.	2006-2007	Agricultural Resource Management for Eco-Friendly Environment, Sustainable Production System and Better Soil Health	26.12.2006 to 15.01.2007	11	Dr. D. L. Kauraw
18.	2006-2007	Agricultural Inputs and Product Quality Estimates for Sustainable and Profitable Agriculture.	20.02.2007 to 12.03.2007	13	Dr. D. L. Kauraw
19.	2007-2008	<i>Resources Management under Intensive Cropping System</i>	06.02.2008 to 26.02.2008)	16	Dr. R. S. Khamparia
20.	2007-2008	<i>“Soil, Plant and Water Testing for Efficient Use of Input Resources for an Eco-friendly Production System”</i>	04-03-2008 to 24-03-2008	13	Dr. R. S. Khamparia
21.	2008-2009	<i>“Impact of Resource Management on Soil Productivity, Sustainability and Soil Health”</i>	11.12.2008 to 31.12.2008	16	Dr. R. S. Khamparia
22.	2008-2009	<i>“Soil, Plant and Water Quality Management for an Eco-Friendly Agricultural Production System”</i>	09.02.2009 to 01.03.2009	24	Dr. R. S. Khamparia
23.	2009-2010	Resource Management for Sustaining Crop Production & Soil Health	03.03.2010 to 23.03.2010	19	Dr. R. S. Khamparia
24.	2010-2011	Integrated plant nutrient management to sustain soil fertility and health for higher crop production	09.12. 2010 to 29.12.2010	25	Dr. R. S. Khamparia
25.	2011-2012	“Biotic and abiotic resources management for eco-friendly and sustainable agriculture”	03.10.2011 to 23.10.2011	23	Dr. A. K. Rawat
26.	2012-2013	“Advances in Agro-technologies for Improving Soil, Plant & Atmosphere Systems”	11.10.2012 to 31.10.2012	18	Dr. A. K. Rawat
27.	2013-2014	“Agro-ecological approaches towards sustainable agricultural production”	01.10.2013 to 21.10.2013	19	Dr. R. S. Khamparia
28.	2014-15	“Management of Soil Health: Challenges and Opportunities”	29.09.2014 to 19.10.2014	23	Dr. A.K. Rawat
29.	2015-16	“Climate Resilient Soil Management Strategies for Sustainable Agriculture”	14.10.2015 to 03.11.2015	23	Dr. A.K. Rawat
30.	2016-17	“Soil Safety and Soil Health: Issues of Concern for Agriculture, Environment and Human Health”	27.09.2016 to 03.10.2016	24	Dr. B. Sachidanand
31.	2017-18	“Management of Soil Health with respect to its fertility for higher production and human health”	05.09.2017 to 25.09.2017	20	Dr. B. Sachidanand
32.	2017-18	“Soil Management Approaches for Climate Mitigation in Sustainable Agriculture System”	09.01.2018 to 29.01.2018	18	Dr. B. Sachidanand
33.	2018-19	“Recent Trends in Sustainable Management of Soil Health for Doubling the Farmers’ Income”	18.09.2018 to 08.10.2018	18	Dr. B.L. Sharma
34.	2019-20	“Current Challenges and Strategies for Management of Soil Health and Sustainable Productivity”	11.09.2019 to 01.10.2019	25	Dr. A.K. Dwivedi
Total				686	

Faculty Staff strength in CAFT (Assistant Professor, Associate Professor, Professor and equivalent):

i. Professors/Pr. Scientists:	03
ii. Associate Professors/Sr. Scientists:	06
iii. Assistant Professor/Scientists:	15

Information regarding other academic staff of the Institute who is likely to be used as resource persons:

Faculty members from other departments of the university and ICAR institutes

Specific facilities available for conducting the Programme such as laboratory equipments/instruments, research farm, library, classroom, guesthouse, etc.:

The department is facilitated with well furnished and equipped PG class and seminar room with audio-visual systems, library (books and periodicals), well equipped UG and PG/Ph.D. laboratories as per the requirements of different subjects of specialization. Highly equipped laboratories are available under different projects viz., AICRP on Long Term Fertilizer Experiment (LTFE), Soil Test & Crop Response (STCR), Soil Testing Laboratory, Micronutrient Laboratory (MN), Soil Microbiological Laboratory (SBB), and Biofertilizer Production Centre (BPC). The laboratories are well equipped with almost all types of sophisticated instruments. Looking to the facilities available, ICAR has sanctioned Centre of Advanced Faculty Training (CAFT) in Soil Science.

BACKGROUND

The soil health has consistently gained importance in sustaining crop productivity. Soil health deterioration is a threat to maintaining soil fertility for sustainable agriculture development. The increasing demand for food production is a growing challenge towards promotion, development of healthy soils. The maintenance of native soil fertility in the intensively cultivated regions in recent past has changed the soil health. Soil management practices influence soil fertility but the intensive cropping has considerably depleted the nutrient reserve leading restoration imperative to sustainable production.

The training course aims to enrich and guide the participants in managing soil fertility by replenishing soil nutrient pools, improving organic farming practices incorporation of biofertilizers, recycling of nutrients and improving the efficiency of inputs by reducing nutrient losses.

Therefore, this training programme is being proposed to address the following objective:

OBJECTIVE

- To impart training for technical staff of ICAR/SAUs on potentials of management practices in sustaining natural resources and agricultural productivity for improving farmers livelihood and doubling the farmers' income.

THE INSTITUTE

Government of India with the assistance of the State Government established the multi campus university at Jabalpur, in the heart of the country, named after the architect of modern India, Pt. Jawaharlal Nehru, based on the recommendations of Radhakrishnan Commission (1946). On the concept of establishment of Agricultural Universities an approach was envisaged to narrow down the gap between the experts and farmers through Joint Indo-American Team on Agricultural Research and Education in 1954-55 and 1959-60 on the pattern of Land Grant Colleges of USA. On October 2, 1964, Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV) was inaugurated by the Union Minister of Information and Broadcasting, Smt. Indira Gandhi. The Central Administrative Office of the University is located about 8 km North of Jabalpur town on National Highway No. 7.

ABOUT THE DEPARTMENT

With the establishment of the Faculty of Agriculture in Jawaharlal Nehru Krishi Vishwa Vidyalaya, the Department of Soil Science & Agricultural Chemistry came into existence during 1967. The Department runs M.Sc. (Ag) and Ph.D. degree programmes as scheduled by the Vishwa Vidyalaya. Soil Fertility & Plant Nutrition, Soil Physics and Soil Microbiology are the prime areas of specialization in the department. The department has established several magnificent milestones in teaching, research and extension activities for the benefit to mankind, particularly to the farming community.

Strengthening of departmental library:

The library of the Department of Soil Science has been further strengthened with CAFT funds. Text books and reference books worth Rs. 35,000/- have been purchased during 2018-19 for providing subject matter support to faculty members, trainees and post graduate students of the department.

Research Projects:

Following research projects are under operation in the Department of Soil Science & Agricultural Chemistry, JNKVV, Jabalpur.

A. ICAR/GOI funded project:

- AICRP on Micro and Secondary Nutrients and Pollutant Elements in Soils and Plants
- AICRP on Long Term Fertilizer Experiment
- AICRP on Soil Test Crop Response
- AINP on Soil Biodiversity & Biofertilizers
- Centre of Advanced Faculty Training

B. State Non Plan :

- Establishment of MPARI
- Agricultural Research Laboratory & Institute
- Soil Testing Scheme

C. State Plan:

- Isotopes Research Laboratory
- Research on Production and Quality Control of Biofertilizers
- National Agricultural Research Project

D. AD-HOC Projects:

- Use of microbes for plant protection and nutrient management in increasing crop productivity (funded by Mandi Board, Bhopal M.P.)
- Characterization of security paper mill effluent and assessment of its impact on soil properties.(Funded by security paper mill Hoshangabad, Govt. of India)

List of existing faculty members of Soil Science at JNKVV

S. No.	Name	Designation	Field of working
JABALPUR			
1.	Dr. A.K. Dwivedi	Professor & Head	Soil Fertility
2.	Dr. N.G. Mitra	Pr. Scientist	Soil Microbiology
3.	Dr. P.S. Kulhare	Pr. Scientist	Soil Fertility
4.	Dr. H.K. Rai	Sr. Scientist	Soil Fertility
5.	Dr. Y.M. Sharma	Associate Professor	Soil Fertility
6.	Dr. S.S. Baghel	Associate Professor	Soil Fertility
7.	Dr. B.S. Dwivedi	Scientist	Soil Fertility
8.	Dr. A.K. Upadhyay	Scientist	Soil Fertility
9.	Shri G.S. Tagore	Scientist	Soil Fertility
10.	Dr. R.K. Sahu	Assistant Professor	Soil Microbiology
11.	Dr. F.C. Amule	Research Associate	Soil Microbiology
12.	Shri Abhishek Sharma	Research Associate	Soil Fertility
TIKAMGARH			
13.	Dr. B.K. Dixit	Associate Professor	Soil Physics
GANJ BASODA			
14.	Dr. S.R.S. Raghuwanshi	Associate Professor	Soil Fertility
15.	Dr. R.K. Bhatnagar	Assistant Professor	Soil Physics
16.	Dr. P.K. Jaga	Assistant Professor	Soil Fertility
BALAGHAT			
17.	Dr. R.K. Thakur	Assistant Professor	Soil Fertility
REWA			
18.	Dr. N.K. Khamparia	Associate Professor	Soil Fertility
POWARKHEDA			
19.	Dr. G.D. Sharma	Assistant Professor	Soil Fertility
20.	Smt. Hemlata Ahirwar	Assistant Professor	Soil Fertility