



K. K. Wagh Education Society's

K. K. Wagh Agriculture & Allied Colleges

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1. Visit of Dignitaries



Shri. Vijayrao Kolte, former Vice-President, MCAER, Pune visited to Agriculture campus, Saraswati Nagar on 27th April, 2017. Staff members briefed the activities undertaken by students during the Experiential learning and Hands on Training Programme. He admired the students and parsed on some important suggestions.



Mr Prashant Shete, Deputy Secretary, (Agriculture University Section) Government of Maharashtra visited to Agriculture campus, Saraswati Nagar on 27th February, 2017 to see the infrastructure facilities of private colleges. He also visited to farm located at Puriya Park and satisfied with the facilities provided by the colleges.



Dr. C. N. Mishra, IIWBR Scientist Karnal, Haryana; Dr. Y. N. Kamathkar, UAS, Dharwad; Dr. N. V. Sawant, Wheat Rust Research Station, Mahabaleshwar and Dr. D. A. Gaddekar, ARS, Kundewadi visited Advanced Varietal Trial on Wheat conducted at college farm Puriya Park, Nashik on 13th February, 2017.



Visit of Mr. TSK Reddy to Plant Tissue Culture Lab on 09th February, 2017

2. Education

Several visits were arranged for under Graduate students. The perse motto of these visits was to motivate the students, to showcase practical applicability of technology and to interaction with progressive entrepreneurs.

Tours/Visits of the students

S.N.	Name of Department	Place of Visit	Sem	Date
K. K. Wagh College of Agriculture, Nashik				
1	Department of Botany	Dr. B. S. Konkan Krishi Vidyapeeth, Dapoli	VI	28/02/2017 to 03/03/17
		Wheat Research Station, Kundewadi, Tal-Niphad Dist-Nashik.	IV	23/02/2017
		Sahyadri Farmer Producer Company, Mohadi, Nashik	VIII	03/02/2017
2	Department of Agronomy	TNAU, Coimbatore	VIII	03/04/2017
		Seed Centre, TNAU, Coimbatore	VIII	03/04/2017
		Horticultural Research Station, Ooty	VIII	01/04/2017
		CFTRI, Mysore	VIII	30/03/2017
		Seed Quality & Research Lab. UAS, Dharwad	VIII	29/03/2017
		Seed Processing Plant, MPKV, Rahuri	VIII	23/02/2017
3	Department of Agricultural Entomology	Wheat Research Station, Kundewadi	VIII	30/01/2017
		Bio-Control Laboratory, NHRDF, Chitegaon Phata, Nashik	VIII	01/04/2017
		IARI-Regional Station, Katrain (Kullu Valley), Himachal Pradesh	VIII	13/03/2017

	Central Potato Research Institute, Shimla, Himachal Pradesh	VIII	10/03/2017	
	Directorate of Mushroom Research, Chambaghat, Solan, Himachal Pradesh	VIII	10/03/2017	
	National Dairy Research Institute, Karnal (Haryana)	VIII	09/03/2017	
	Division of Agril Entomology, Bio-Control Laboratory, IARI, New Delhi	VIII	08/03/2017	
4	Department of Plant Pathology	Biofertilizer Unit, MPKV, Rahuri	VIII	23/03/2017
		Biofertilizer Unit, YCMOU, Gangapur Road, & NHRDF, Chitegaon Phata, Nashik	VIII	06/02/2017

K. K. Wagh College of Agricultural Engineering & Technology, Nashik

1	Irrigation & Drainage Engineering	Jain irrigation System Ltd., Dist.Jalgaon	VI	29/03/2017 to 30/03/2017
2	Soil Science & Agril. Chemistry	Gargoti Mineral Museum, Gargoti, Sinnar	II	19/03/2017
3	Soil and Water Conservation Engg.	Darewadi Watershed, Darewadi, Sangamner, Dist. Ahmednagar	IV	20/02/2017
4	Agricultural Process Engineering	Sarveshwari Cold Storage, A/P- Pachore Wani, Dist. Nashik	VI	25/01/2017
5	Irrigation & Drainage Engineering	Micro-Irrigation (Drip) System and its Components at Farm, Shirwade Vani Dist. Nashik	VI	25/01/2017
6	Irrigation & Drainage Engg., APE, SWCE Farm Machinery and Power.	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dist. Ratnagiri	VI	09/01/2017 to 12/01/2017

K. K. Wagh College of Agricultural Biotechnology, Nashik

1	Plant Biotechnology and Biochemistry and Molecular Biology	Jain irrigation System Ltd., Dist.Jalgaon	IV	01/04/2017
		University of Agriculture, Palampur.ICAR Regional station, Katrain, (Kullu Valley) CPRI, Shimla, NRCPB, New Delhi, NBPGR, New Delhi. Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dist. Ratnagiri	VI	15/03/2017 to 25/03/2017
		DOGR, Rajgurunagar, NIPHT, Talegoan Dabhade, MAPRO, Mahabaleshwar, Kohinoor Turmeric Mill, Wai, Honey Bee Keeping Center, Mahabaleshwar	II	14/03/2017 to 18/03/2017

K. K. Wagh College of Food Technology, Nashik

1	Food & Industrial Microbiology	Jain irrigation System Ltd., Dist.Jalgaon		08/04/2017
2	Food Science and Technology	Dal Mill, Ghoti, Igatpuri		21/03/2017
3	Food Engineering & Food Chemistry & Nutrition	Vita Milk Bar, Ambala.	VI	18/03/2017
		HPMC, Sundernagar, Himachal Pradesh.		17/03/2017
		Shaawl Factory, Kullu		16/03/2017
		Mother Dairy India Pvt. Ltd, New Delhi		14/03/2017
4	Food Trade and Business Management & Food and Industrial Microbiology	GKVK, Sericulture, Apiculture, College of Veterinary Science: Bakery Processing Unit and Dairy College, Bangalore	VI	07/01/2017
		Botanical Garden, Rose Garden, Tea and Coffee farms, Tea and Chocolate factory, Tea museum, Ooty		05/01/2017
		ISKCON Akshaypatra (Mid Day Meal Scheme) and Defense Food Research Laboratory, Mysore		04/01/2017
		Central Food Technology Research		03/01/2017



		Institute: International School of Wheat milling and Baking Technology, Grain Science Department, PCBT departments, Mysore	
K. K. Wagh College of Agriculture Business Management, Nashik			
1	Agriculture Business Management	MAPRO and Gurukrupa Turmeric Processing Industries, Wai	IV, 18/02/2017
2	Agricultural Marketing	Mahabaleshwar Madhothpadak Sahakari Society Ltd. (Madhusagar), Mahabaleshwar	VI & VIII 17/02/2017
		Maharashtra State Khadi & Village Industries Board, Bee Keeping Unit, Mahabaleshwar	
3	Agriculture and Allied Sciences	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli	16/02/2017
		Regional Agricultural Research Station, Karjat	14/02/2017
K. K. Wagh College of Horticulture, Nashik			
1	Horticulture	ATIC, Lakhi Bagh, Centre of Excellence For Mango, Aromatic and Medicinal Plant Biodiversity unit, Horticultural Nursery, Seed Testing Laboratory unit, Rubber Plantation Unit, Dr.BSKKV, Dapoli	VIII 06/04/2017
		ATIC, AICRP, Onion Storage Project, Post Harvest Technology Project, Biotechnology Research Centre, Vegetable Seed Processing Centre, Tomato Improvement Project, MPKV, Rahuri	VIII 05/04/2017
		Central Institute of Post Harvest Engg. and Technology (CIPHET), Ludhiana	VIII 03/04/2017
		Punjab Agriculture University, Ludhiana	IV 06/03/2017 to 10/03/2017
		Biotechnology, Entomology Department, IARI, New Delhi	II 06/02/2017 to 08/02/2017



Student of B. Sc. (Agri.) visited at Division of Agril Entomology, Bio-Control Laboratory, IARI, New Delhi on 8th March, 2017



Dr. Gadekar, Scientist Wheat Research Station Kundewadi guiding the IV Semester students about various breeding programme and Seed Production in Wheat.



Visit of T. Y. Students of K. K. Wagh College of Agricultural Engineering & Technology at MAPRO Industry, Wai, Mahabaleshwar on 09th January, 2017



Student of B. Sc. (Horti) visited All India Co-ordinated Vegetable Improvement Project, MPKV, Rahuri on 06th February, 2017



Students of III year B. Tech (Food Technology) visited Wheat Milling section, International School of Wheat Milling and Baking Technology, CFTRI, Mysore on 3rd January, 2017.



Students of B.Sc. Agri / Bio - Tech visited Charak Herbal Garden, Dapoli on 15th March, 2017.

1. Human Resource Development

A) Training / Seminar /Workshop attended

S.N.	Trainings/ Seminars /Workshops attended	Name of the Staff	Date
K.K.Wagh College of Agriculture, Nashik			
1	II International Conference of Agricultural Economics, at Maharashtra Society of Agricultural Economics, MPKV, Rahuri	Prof. S. B. Tupe	10 th to 11 th February, 2017
2	State level Workshop on Developing business leaders and IT professionals with global vision & Indian values at Dr.Moonje Institute of Management & Computers, Bhosala Military School, Nashik	Prof A. S. Rathod	03 rd to 04 th February, 2017
3	State level Workshop on Implementation of Grapenet System for Export of Grape at State Department of Agriculture, Nashik	Prof. T. B. Ugale	30 th January, 2017
K.K.Wagh College of Agricultural Engineering and Technology, Nashik			
1	National Conference on "Agro-Processing Based Entrepreneurship Development for Sustainable Livelihood at Dr. PDKV, Akola.	Prof. G.D.Patil	22 nd to 23 rd January, 2017
K.K. Wagh College of Agricultural Biotechnology, Nashik			
1	National Conference on "Shakespear Today : Readings on influence, Literature and Culture at H. P. T. Arts and R. Y. K. Science College, Nashik	Prof. P. A. Patil Prof. R. S. Pawar	20 th to 21 st January, 2017
2	National seminar on Indian Writing in English and presented paper at Hutatma Rajguru College, Rajgurunagar	Prof. R. S. Pawar	09 th February 2017
3	National seminar on Current Advances in Agricultural Biotechnology at Pravara Rural Education Society, Loni, Ahemadnagar.	Prof H.V.Deshmukh Prof. P.T.Yeole Prof. N.S.Chavan Prof. S.S Kharade Prof. K.S. Palekar Prof. S. A. Belge Prof. C.S.Nirghude & Prof. D.S.Wagh	07 th to 08 th March, 2017
4	International Conference on Emerging Trends in Allied & Applied Biotechnology at Biologix Research and Innovation Centre Pvt. Ltd. and Science Engines Journals at Orchha, Madhya Pradesh	Prof. S.T Waghmare	1 st to 2 nd March 2017
K.K. Wagh College of Food Technology, Nashik			
1	Hands on Training for Analysis of Food Bio actives at Institute of Chemical Technology, Matunga, Mumbai.	Prof. S. N. Chaudhari	02 nd to 04 th March, 2017
K.K. Wagh College of Agriculture Business Management, Nashik			
1	II International Conference of Agricultural Economics at Maharashtra Society of Agricultural Economics, MPKV, Rahuri.	Prof. P. P. Jagtap	10 th to 11 th February, 2017
K.K. Wagh College of Horticulture, Nashik			
1	Advances in Microbial Bio- Fertilizers for Sustainable Agriculture in Diverse Soil & Cropping System at Indian Institute of Soil Science, Bhopal	Prof. M. D. Sadgir	10 th to 19 th January, 2017

B) Training/Seminar/Workshop attended by students

S.N.	Name of the Student	Name of the Programme	Date
1	Mr. Chetan Gore, Mr. Chandrakant Patil, Mr. Vivek Ugale, Ms. Priya Shah, Mr. Nakul Magar, Ms. Shweta Nikam, Mr. Prashant Kabade, Ms. Megha Ahirrao, Mr. Dipak Bhamre, Ms. Laxmi Govind, Mr. Akshay Patole, Ms. Sayali Pawar, Ms. Shraddha Mahajan, Ms. Darshana Komarekar, Mr. Rohit Kamble, Mr. Vijaysingh Patil and Mr. Shubham Bhalerao	National seminar on Current advances and challenges in Agricultural Biotechnology at CABT, Loni	07/03/2017 to 08/03/2017
2	Omkar Sawant, Soma Mahale, Sagar Ashok and Sonar Chaitali	Conference on 'Foodomics' at SRM University, Chennai	16 th to 17 th February, 2017
3	Nimkar Arnav, Vivek Barwat, Nawale Pratik and Landge Kapil	International Exhibition on 'Food & Dairy Processing & Packaging Machineries, Food products and Allied Industries' from at Pimpri, Pune.	24 th to 26 th February, 2017

4. A) Experiential Learning Module

The College of Agriculture provides facility to conduct experiential learning modules on Nursery Management, Mass Production of Bio-agents and Bio-pesticides, Soil and Water Clinic, Milk & Milk Products, Production of Bio-fertilizer, Seed Production and Plant Tissue Culture Technique which will be helpful to the students to develop their entrepreneurial skills, so that they can become job provider rather than job seeker.

Under the experiential learning programme students of VIII semester went through Hands on Training for the preparation of Nursery Sapling of various fruits and ornamental plants. They produced various bio-agents and bio-pesticides and sold to the farmers. Value added milk products were prepared by them and sold to staff members. They also tested soil and water samples of farmers and given soil health card. Students prepared various bio-fertilizers and sold to grape, pomegranate and vegetables growers of Nashik District. They take wheat seed production programme of MAHABEEJ and prepare tissue cultured saplings of Banana. Through all these activities students generated the receipts and also gained entrepreneurial skills.



Observation of pest of Seed Production Plot



Students Performing practical on threshing operation



Practical on Seed germination test.

B) Hands on Training

The College of Agricultural Biotechnology provides facility for conducting Hands on Training Programme on projects related to Plant Biotechnology, Plant Tissue Culture, Biochemistry and Molecular Biology and Post Harvest and Food Biotechnology for solving the problems of farming community. Also this Hands on Training Programme will be helpful to the students to develop their experimental skills so that they can become self entrepreneur.

In the VIII semester, students had undergone hands on training programme for varietal identification of cowpea, grapes, wheat etc. by Polymerase Chain Reaction technology under Plant Biotechnology and Biochemistry and Molecular Biology department. Also *in-vitro* plant regeneration of Banana, Pomegranate, Gerbera and various Medicinal plants such as Kalmegh and Shatavari carried out under Plant Tissue Culture Laboratory. Hands on Training students carried out Wine and Bioethanol production from fruits like Grapes, Guava and Pomegranate etc. Also analyzed antioxidant and antimicrobial activity of various plant and fruit peels.

5. NSS (National Service Scheme)

K. K. Wagh College of Agriculture, Agricultural Engineering and Technology, Agril. Biotechnology and Food Technology organized Special Winter Camp at Babhaleshwar, Nashik under NSS Programme from 04th to 7th March, 2017. In all 125 students participated in the camp

In this camp student performed Nala bunding, countour bunding and stone pitching activities at Bhabhleshwar farm. Guest lecture on “Swachchhata, Pani purvatha & Aajcha samaj” was arranged in the presence of Mr. Abhishek Patil, Swachchhata Doot, Zilla parishad- Nashik.



On the occasion of National Voters Day K. K. Wagh Agri and Allied Colleges organized the guest lecture of Mr. Baban Kakade, Tahsildar, Nashik on 25/01/2017.



Subhashchandra Bose birth anniversary Celebrated at Seminar hall, K.K.Wagh Agri. College, Nashik on 23/01/2017 in the presence of Shri Swami Kanthanand, Trimbakeshwar, Nashik (staff and students were present on this occasion)



Celebration of Shaheed Din at Seminar hall, K.K.Wagh Agri. College, Nashik on 23/03/2017.



Third Year ABM Students Participated in NSS Camp

6. Sales and Services

Following facilities and services are provided by Agri. and Allied colleges:-

- Seed production of field crops like soybean, wheat etc.
- Soil and water sample testing
- Saplings of fruit crops viz. Pomegranate, Custard apple, Sapota, Mango, Guava, Tamarind and Ornamentals and Flowering plants.
- Production of bioagents and bio pesticides viz. *Cryptolamous montrozauri*, *Trichoderma viridae*, *Pseudomonas fluorescense*, *Bacillus subtilis*, *Verticillium lecani*, *Beauveria bassiana* and *Metarhizium anisoplae* etc.
- Production of *Rhizobium*, *Azotobacter*, PSB, KSB, *Acetobacter* & Decomposing cultures.

7. Extension Activities

A. Radio Talks

S.N.	Name of Programme	Name of Staff	Date
K.K.Wagh College of Agriculture, Nashik			
1	Dragon Fruit Farming	Prof. P. B. Pawar	20/03/2017
2	Good Agricultural Practices	Dr. S. M. Hadole	07/03/2017
3	Pest Management in Cruciferous Vegetables	Prof. A. S. Mochi	13/01/2017
4	Drakshbaget Paper Raping Che Mahatav ani Purvtayan.	Prof. Y. L. Bhagure	09/01/2017
5	Residue Management in Grapes	Prof. T. B. Ugale	05/01/2017
6	Ethenol Nirmitti Kalachi Garaj	Prof. B.R.Waghmode	05/01/2017
K.K.Wagh College of Agril. Biotechnology, Nashik			
1	Unhali Bhajipala va Phal Pikanche Rog Niyantran	Prof. H.V. Deshmukh	09/02/2017
K.K. Wagh College of Food Technology, Nashik			
1	Nachni Pasun Vividh Prakriya Yukta Padarth	Prof. S. N. Chaudhari	29/04/2017
2	Aamba Prakriya	Prof. P. P. Bhalerao	28/04/2017

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3	Detox Water Ek Adbhut Sankalpna	Prof. B. D. Rudrawar	15/04/2017
K.K. Wagh College of Agriculture Business Management, Nashik			
1	Farmers Producer Company - Kalachi Garaj	Prof. P. K. Makhare	24/04/2017
2	Shetmaal Taaran Karj Yojana	Prof. M. M. Bagal	21/04/2017
3	Neem Coated Urea	Prof. A. K. Babar	17/04/2017
4	Krushhi Paryatan	Prof. V. S. Dange	30/03/2017
5	Mobile cha Shetimidathe Upyog	Prof. K. P. Jadhav	27/03/2017

B. Popular Articles Published

S.N.	Name of Article	Name of Staff	Publication Details
K.K.Wagh College of Agriculture, Nashik			
1	Strwberivaril Rog ani Saurakshan	J.K.Jagtap	Krushhi Pandhari, 2017
2	Sugandhi Vanaspatinche Pik Sanrakshan		
3	Phalotpadnatil Sandhi	Dr. S. M. Hadole	Daily Agrowon 9 th March, 2017
K.K.Wagh College of Agricultural Biotechnology, Nashik			
a. English Article			
1	MiRNA Engineering for Improved Abiotic stress tolerance in Rice	Prof. N. S. Chavan & Prof. S.S.Kharade	Biotech Articles / Online, 2017
2	Management Practices for Buffalo	Prof. A. S. Gawali & Prof. S.S.Kharade	
3	RNA Editing and its potential role in Evolution	Prof. S.T.Waghmare	
4	Forward and Reverse Genetics Approaches in Functional Genomics	Prof. S.T.Waghmare	
5	Genetic Engineering Approaches For Tolerance Against Abiotic Stress	Prof. S.T.Waghmare	
6	Agrobacterium Mediated Gene Transfer: An Overview	Prof. S.T.Waghmare	
7	Engineering Disease Resistance Based on TAL Effectors	Prof. S.T.Waghmare	
8	Goat Rearing : An Overview	Prof. A. S. Gawali, Prof. S.T.Waghmare & Prof. C.S.Nirghude	
9	Role of Farm Manager and Principles of farm management	Prof. A. S. Gawali & Prof. P. T. Yeole	
10	Management practices for Buffalo	Prof. A. S. Gawali & Prof. S.S. Kharade	
11	Foot and Mouth disease in Animals	Prof. A. S. Gawali, Prof. K. S. Palekar & Prof. S.M. Jadhav	
12	Introduction to diseases of livestock	Prof A. S. Gawali & Prof. R.B.Narwade	
b. Marathi Article			
13	Maharashtraatil Mhashichya Jati	Prof. A. S. Gawali	Krushhi Pandhari, 2017
14	Janavaranchya Khadyat Pratijaivikancha Vapar	Prof. A. S. Gawali & Prof. B.G. Biradar	
15	Aushadhi Vanaspati va Tyanche Mahatva	Prof. P. T. Yeole	Krushhi Pandhari;
16	Dhingri Alimbi Lagwad Tantradnyan	Prof. S. A. Patil and Prof H.V.Deshmukh	Hiwali-2017
K.K.Wagh College of Food Technology, Nashik			
1	Keli Pasun Banva Prakrtiyukat Padarth	Prof. S.N.Chaudhari & Prof. S.B. Palve	Daily Agrowon, 12 th February, 2017
2	Beet Pasun RTS and Muffins	Prof. S.N.Chaudhari & Prof. S.B. Palve	Daily Agrowon, 15 th February, 2017
3	Moringa: A therapeutic Food	Prof. S.N.Chaudhari	Beverage and Food World Magazine, February, 2017
4	Keli Pasun Banva Prakrtiyukat Padarth	Prof. S. B. Palve & S. D. Wable	Krushikhadyavidya, February, 2017
5	Beet Pasun Vividh Prakriya yukta Padhartha	Prof. S.N.Chaudhari & S. D. Wable	Krushikhadyavidya, February, 2017
6	Codex Alimentarius Commission	Prof. P. P. Bhalerao	Daily Agrowon, 31 st March, 2017

K.K.Wagh College of Horticulture, Nashik			
1.	Papaya Utpadan Tantradnyan	Prof. S. B. Vidhate	Krushidut, April, 2017
2.	Falapasun Tikau Padarth	Prof. S. B. Vidhate	Krushibhushan, March, 2017
3.	Ase Milava Hapus ch Bharghos Pik	Prof. Y. D. Mehetre & Prof. D. B. More	Krushidut, March, 2017

C. Expert Lectures

1. Prof. A. C. Jadhav delivered lecture to Agri. Assistant on Processing of Papaya at RAMETI, Nashik on 25th January, 2017
2. Prof. Y. L. Bhagure delivered lecture to Agri. Assistant on Cultivation of Papaya at RAMETI, Nashik on 24th January, 2017
3. Prof. T. B. Ugale Participated in farmers training programme as an expert on topic Integrated Pest Management in Grapes at Ugaon. Tal. Niphad, Dist. Nashik, on 13th January, 2017 organized by Centre for Integrated Pest Management, Regional Office Nashik.
4. Prof. T. B. Ugale present as a SMS and delivered lecture on Management of Rodents in Warehouse in Training Programme organized for warehouse owner by Central Warehouse Department on 22nd March, 2017 at RAMETI, Nashik.

8. Research Articles Published

S.N.	Name of Article	Name of Staff	Publication Details
K.K.Wagh College of Agriculture, Nashik			
1	Relationship between selected characteristics of tomato growers and their adoption level of recommended technology in Nashik district of Maharashtra State	S.M. Hadole, Parmeshwari B. Pawar and T.B. Ugale	Agric. Update, 12(2): 216-220; May, 2017
K.K.Wagh College of Food Technology, Nashik			
1	Utilization of Gulkand in Desiccated Coconut Chocolate, Process Standardization and their Sensory Attributes	B. D. Rudrawar and S. N. Singar	Life Sciences Leaflet, Vol:84, ISSN 2277-4297, pp 46-56, Issue: 1 st February, 2017
2	Development & Standardization of Jackfruit pickle and study of sensory Analysis	B. D. Rudrawar and V. S. Kale	Life Sciences Leaflet, Vol:84, ISSN 2277-4297, pp 57-65, Issue: 1 st February, 2017
3	Effective utilization of Soyabean in preparing Soyamrakhand and study of its Sensory Attributes	B. D. Rudrawar, R. S. Sharma and G. B. Shinde	Life Sciences Leaflet, Vol:84, ISSN 2277-4297, pp 34-45, Issue: 1 st February, 2017
4	Study of effect on change in TSS, Acidity, pH and Sugar to Acid ratio in Lemon Ginger Punch during storage	B. D. Rudrawar and V. B. Dube	Life Sciences Leaflet, Vol:84, ISSN 2277-4297, pp 8-18, Issue: 1 st February, 2017

9. Moments of the Pride

- Mr. Somnath Thakare student of T.Y.B.Sc. Agri. selected in west zone Inter University Football Tournament held at Barakatullah University, Bhopal (MP) from 4th to 12th January, 2017.
- K. K. Wagh Agriculture college students Mr. Devkar Vijay (Kabaddi, Men), Ms. Tikekar Pallavi (Kabaddi, Women), Mr. Suraj Ahire (Athletics), Mr. Shubham Muchande (Volley ball, Men), Mr. Suraj Ahire (Athletic, s Men) and Mr. Nalawade Akash (Badminton, Men) selected in XVII All India Inter Agril- Universities Sports and Games Meet 2016-2017 Tournament held at CCS Haryana Agricultural University, Hisar from 25th to 29th March, 2017.
- Mr. Suraj Ahire II year student of K. K. Wagh College of Agriculture was selected for West Zone Inter

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University Cricket Tournament held at Barakatullah University, Bhopal on 15th to 28th January, 2017.

- Mr. Omkar Sawant and Mr. Mahale Sagar Ashok student of final year B. Tech. (Agri.) successfully qualified Graduate Aptitude Test in Engineering (GATE 2017) and scored 3rd and 9th Rank in ICAR PG Entrance Exam, 2017.
- Ms. Nikam Pranali student of Food Technology College awarded as Best acting female in an Kamgar Kalyan, (State Level Drama Competition), Nashik on 11th January, 2017.
- Mr. Jay Parkhe and Ms. Deochhake Aakansha students of Food Technology participated in singing competition "Utakarsha" 2017 held at MPKV Rahuri 22nd February, 2017.



Alumni of Agriculture Mr. Namdev Bhamare received Pomegranate Best Progressive Farmer Award 2017 at the hands of Hon. Shri Subhash Deshmukh, Minister of Cooperation Textile and Marketing



Mr. Shubham Gavhane T.Y. & Mr. Rushikesh Shelar, S. Y. Students of K. K. Wagh College of Agricultural Engineering and Technology receiving Best Achievement in Mrudgandh-2017

10. Guest Lectures arranged by Agriculture and Allied Colleges

S.N.	Topic	Resource person/Institute	Date
K.K.Wagh College of Agriculture, Nashik			
1	Techniques of Interview	Mr. Shubhash Rajguru, Assistant Professor, V. N. Naik College, Nashik	01/04/2017
2	ICAR-JRF Preparation	Mr. Yogiraj Zirwal, M.Sc.Agril in Nematology from IARI, New Delhi	25/02/2017
3	Opportunities for Agri Graduates in Agri Input Retail Sectors	Mr. A. N. Sathe, District Quality Control Officer, Department of Agriculture, Nashik	06/02/2017
K.K. Wagh College of Agricultural Engineering & Technology, Nashik			
1	Infinite series and it's convergence	Mrs.S.B. Chaudhari, Mathematics Dept., Former Assistant Professor, K.K.Wagh College of Agril Engg. and Technology, Dist. Nashik.	10/04/2017
2	Maintenance of Drip Irrigation	Dr. S.D. Dahiwalkar, Research Engineer and Associate Professor, Department of Irrigation and Drainage Engineering, MPKV, Rahuri, Dist. Ahmednagar	01/04/2017
3	Processing Opportunities for Agricultural Engineering	Dr. V. P. Kad, Assistant Professor Dept. of Agril. Process Engineering, Post Harvest Technology Centre, MPKV, Rahuri, Dist. Ahmednagar	28/01/2017
K.K.Wagh College of Agricultural Biotechnology, Nashik			
1	Communicative Approach	Prof. J. P. Patil, Assistant Professor H.P.T. College Nashik, Ph. D. Scholar, University of Pune	03/03/2017
2	Recent Biotechnological Techniques for Livestock Improvement	Dr. N. K. Shelar, Veterinary Incharge at Shri, Nashik Panchvati Panjarapol, Nashik	02/03/2017
3	Monsoon, Climate change & Agriculture	Dr. R. N. Sabale, Sr. Meteorologist, Pune	27/01/2017
K.K.Wagh College of Food Technology, Nashik			
1	Microbiological Tests in QC and QA Labs	Mr. Shoeb Shaikh, Quality Control Officer, Mylan Laboratoies, Sinnar	16/02/2017
2	Spiritual Talk	Swami. Kanthanand Maharaj, Ramkrushna Health Centre, Nashik	24/01/2017
3	Future Prospects in Agri-business Sector in MITCON Institute of Management	Dr. Amit Patil , Director, Department of Agriculture Business Management, MITCON, Pune	23/01/2017

4	Career Prospect in Agriculture and Food Trade Business Management	Prof. A. N. Pawar and Prof. V. V. Aher, Matoshri M. B. A. College, Nashik	21/01/2017
K.K. Wagh College of Agriculture Business Management, Nashik			
1	Solar Photo Voltaic Applications in Agriculture	Mr. Charudatta Devdatta Gokhale, Gokhale's Advanced Training Institute, Jalgaon	15/03/2017
2	Personality Development and Career Prospects	Prof. V. V. Aher Matoshri College of Management, Nashik	10/01/2017
K.K. Wagh College of Horticulture, Nashik			
1	Personality development and DMIT test (Dermoglyphic Multiple Intelligent test)	Mr. Arpit Ninawe, Director, Elite Minds, Nashik	04/03/2017
2	Personality development and stress management.	Mr. Shubhash Rajguru, Assistant Professor, V. N. Naik College, Nashik.	06/02/2017



Mr. A. N. Sathe, District Quality Control Officer, Department of Agriculture delivered lecture on 06/02/2017.



ABM Students attended Guest lecture on Solar Photo Voltaic Applications in Agriculture.



Guest Lecture on "Preparation of ICAR, JRF Examination" by Mr. Yogiraj Zirwal, M.Sc.Agril in Nematology, IARI, New Delhi on 25/02/2017



Dr. R. N. Sabale delivered lecture on Monsoon, Climate change & Agriculture on 27/01/2017



Dr. V. P. Kad, Assistant Professor, Dept. of Agril. Process Engineering, MPKV, Rahuri, delivered guest lecture to B. Tech students on 'Processing Opportunities for Agricultural Engineering'



Dr. S. D. Dahiwalkar, Research Engineer & Associate Professor, Dept. of Irrigation & Drainage Engineering, MPKV, Rahuri delivered guest lecture to B. Tech students on 'Maintenance of Drip Irrigation System'

K. K. Wagh Career Academy				
List of Guest Lectures				
S.N.	Name of Speaker	Designation	Topic	Date
1	Shri. Ravindra Khatale	IAS	UPSC Exam Preparation	03/03/2017
2	Shri. Vivek Patade	UPSC Trainer, Nashik	Preparation of UPSC Examination	19/02/2017

11. Other Activities

- Annual Social Gathering: The College Annual Social Gathering (*Mrudgandh-2017*) was organized from 18th to 19th January, 2017. Students have actively participated in Cultural & Sports Activities. Mr. Shrinivas Ghatge, Principal, Detective Training School, Nashik as Chief Guest for Prize Distribution Ceremony of *Mrudgandh -2017*. It was a combined event for all Agricultural Faculties.



Mr. Shrinivas Ghatge, present as Chief Guest for Prize Distribution Ceremony of Mrudgandh -2017



Students participated in Mrudgandh- 2017

• K. K. Wagh College of Horticulture, Nashik organized Mini Exhibition on 22nd March, 2017



Extra Curricular Activities :

• **Industry Academia Interface** was organized by Agri and Allied Colleges on 24th to 25th March, 2017.

➤ **Objectives of Industry Academia Interface :**

1. To help the students in developing the skills required for starting a new business and successfully operating the same.
2. To motivate the students to think for entrepreneurship as an option for career.
3. To provide a platform to the entrepreneurs and industrialists to interact with the students and know about the expectations of the students from the industry

The interface, first of its kind was organized for two days at the institute for the students of all the faculties at K.K.Wagh Agriculture and Allied Colleges, Nashik has proved to be a successful event with students enriching their knowledge about entrepreneurship in the agricultural sector. Also, the esteemed speakers invited for the event expressed satisfaction about the interaction and remarked these kinds of events in agricultural institutes are not organized on larger platform at graduation level. The professionals expressed their willingness in being a part of such events on a continuous basis.

The feedback from the students at the end of the interface was that such interactions with the professionals from agriculture sector would surely prove to be beneficial for them and help them to open up new ventures for developing their career.

• Parents Meet of first and second year students of K. K. Wagh Agricultural Biotechnology and Agriculture Business Management College, Nashik was organised on 23rd March, 2017.

- First Year Students of ABM, Miss. Aishwarya Bhadange and Miss. Bhagyashree Jadhav participated in the Radio Talk on AIR, Nashik on topic “Maze Pahile Matdan Ani Mazya Apeksha”.
- First Year Students of ABM, Mr. Sanket Nikam, Miss. Kalyani Khade and Miss. Shubhangi More participated in the Radio Talk on AIR, Nashik on topic “Beti Bachao Beti Padhao”.
- Krushi Charcha Satra was arranged by K. K. Wagh College of Agril. Biotechnology, Nashik at Tembhurwadi (Ashapur), Tal. Sinner, Dist. Nashik on 01st February, 2017. Lectures were arranged for farmers on – i) Importance of Biofertilizer & Biopesticide ii) Animal Mastitis & its Preventive Measures

In this programme 62 farmers were present and they appreciated the programme and demanded lectures / information on Poultry Management, Goat / Sheep Management in next programme.



Dr. S.M.Hadole felicitating Mr. Sanjay Pawar, Mr. Dinesh Adsare, Director, Meenakshi Managing Director, Poorva Chemtech during Industry Academia Interface



Mr. Dinesh Adsare, Director, Meenakshi Enterprises, guiding students during Industry Academia Interface



Parents Meeting organized by K K Wagh College of ABM on 23rd March, 2017



Parents Interaction with Teachers During Parent Teacher Meet organised by Agril. Biotech College on 23rd March, 2017

➤ **12. Placement Details :-**

Different Companies visited to campus for placement purpose the details are given as below :

S.N.	Name of Company	Placement offered
1	Avenue Super Marts Ltd., (D- Mart, Mumbai)	04 (B. Sc. Agri.) 04 (Agril. Biotech.)
2	Agri Search India Pvt. Ltd., Nashik	13 (B. Sc.Agri.) 01 (ABM College) 01 (Agri. Biotech.)
3	Aligo Agrovet Pvt. Ltd., Nashik	04 (B. Sc.Agri.) 02 (B. Tech.) 01 (ABM College) 01 (Agri. Biotech.)



13. Research Highlights

Relationship between Selected Characteristics of Tomato Growers and Their Adoption Level of Recommended Technology in Nashik District of Maharashtra State.

S. M. Hadole¹, Parmeshwari B. Pawar² and T. B. Ugale³
K. K. Wagh College of Agriculture, Nashik- 422 003.

Abstract : The present research on relationship between socio economic characteristics of tomato grower was conducted in Nashik district of Maharashtra state. Seventy tomato growers were selected randomly from ten villages. The data were collected by personal interview technique from tomato growers with the help of structured interview schedule. Mostly respondents found in medium age category, higher secondary education, medium farming experience, joint and large family, medium level economic motivation, scientific orientation and risk orientation as well as medium knowledge level. The relationship of selected characteristics namely age, type of family, land holding, economic motivation and knowledge level were found to be positively and significantly correlated with overall adoption of recommended practices of tomato.

Keywords : - Relationship, adoption, tomato growers.

Study of Effect on Change in TSS, Acidity, pH and Sugar to Acid Ratio in Lemon Ginger Punch during Storage

B. D. Rudrawar¹ and V. B. Dube²

Assistant Professor, Department of Food Science and Technology and Research Scholar, K. K. Wagh College of Food Technology, Nashik.

Abstract : In the present investigations different kinds of blends were developed from Lemon, ginger and sabja seed. The developed juices were used to make ready to serve and evaluated for sensory as well as nutritional characteristics. The health benefits of sabja seeds are tremendous. It is antioxidant rich, aids in the digestion, cures constipation, cold and skin infection and respiratory disorders. They act as coolant reduces the body heat. It was concluded that the punch made from 85% lemon juice and 15% ginger juice was found most acceptable by panel members as compared to LG2 and LG3 samples in terms of color, taste and overall acceptability. It was found that TSS increased from (15 ± 0.10 to 17.2 ± 0.15 oBrix, 15 ± 0.11 to 16.5 ± 0.16 oBrix and 15 ± 0.10 to 16 ± 0.16o Brix) in LG1, LG2 and LG3 samples respectively. Acidity increased from (0.32 ± 0.011 to 0.39 ± 0.017, 0.33 ± 0.013 to 0.41 ± 0.013 and 0.33 ± 0.015 to

0.42 ± 0.018) in LG1, LG2 and LG3 samples respectively. pH decreased from (3.3 ± 0.09 to 3.0 ± 0.12, 3.2 ± 0.07 to 2.9 ± 0.12 and 3.1 ± 0.05 to 2.7 ± 0.11) in LG1, LG2 and LG3 samples respectively. Sugar to acid ratio decreased from (46.87 ± 0.11 to 44.10 ± 0.10, 45.45 ± 0.12 to 40.24 ± 0.10 and 45.45 ± 0.13 to 38.09 ± 0.13) in LG1, LG2 and LG3 samples respectively. Shelf life studies shows that quality of product was found good for a period of 60 days at room temperature and 90 days at refrigeration temperature. Thus, it can be recommended for production at commercial level to make nutritious and healthy drink.

Key Word : Punch, Antioxidant, Sabja, Shelf life, Sensory Evaluation.

Effective Utilisation of Soybean in Preparing Soy Amrakhand and Study of its Sensory Attributes

B. D. Rudrawar¹, R. S. Sharma² and G. B. Shinde³

Assistant Professor, Department of Food Science and Technology, Assistant Professor, Department of Food and Industrial Microbiology and Research Scholar

K. K. Wagh College of Food Technology, Nashik.

Abstract : In present investigation an attempt has been made for utilization of soymilk for the production of Soy-amrakhand, effectively as value addition as it is not easily consumed because of its beany flavour. It was observed that shrikhand sample SM prepared in the percent ratio of soy chakka:sugar:mango pulp was (45:36:18) found most acceptable by panel members as compared to sample SS (50:50:0) (added strawberry emulsion) and sample S (50:50:0) (control) in terms of colour, taste and overall acceptability. pH and titrable acidity of soy amrakhand was done at an interval of 0th day, 10th day, 20th day, 30th day and 40th day of its storage life. The data obtained were recorded and changes in properties of soy amrakhand were studied for Sample SM only as it was found most acceptable by panel members during sensory analysis. During storage of Soy amrakhand there was a fall in pH value was observed from 4.1 to 3.9. Gradual decrease in pH was observed in soy amrakhand after 10 days of storage affecting flavour i.e. (increasing beany flavour). Addition of mango pulp decreases beany flavour of soybean upto 10 days of storage period but after 10 days due to change in acidity and pH again beany flavour appears. This change in beany flavour may be due to formation of compounds such as aldehydes, ketones and alcohols by microorganisms during storage. While gradual increase in titrable acidity from 0.60 % to 0.63 % in terms of lactic acid of

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the soy amrakhand was observed after 10 days of storage period.

Key Word : *Soy-amrakhand, Emulsion, Aldehydes, Ketones, Beany flavour.*

Utilization of Gulkand in Desiccated Coconut Chocolate, Process Standardization and their Sensory Attributes

B. D. Rudrawar¹ and S. N. Singar²

Assistant Professor, Department of Food Science and Technology and Research Scholar,

K. K. Wagh College of Food Technology, Nashik.

Abstract : Chocolate is one of the most popular food products. In the present investigations different kinds of samples were developed from desiccated coconut, condensed milk, dark and milk chocolate and sugar as a basic ingredient and Mint, Gulkand and basil as a flavoring supplement. Desiccated coconut chocolate is important and rich source of Carbohydrates, Minerals in the diets. The important saturated fatty acid in the coconut is lauric acid which increases good-HDL cholesterol levels in the blood. Thus; desiccated coconut is taken as basic ingredient to make nutritious chocolate. Gulkand is rich in Carbohydrate and dietary fiber, vitamin C, Sodium and less amount of protein. Gulkand reduces acidity and reduces heat in the stomach, treats ulcers and swelling in the intestine. Condensed milk acts as binding agent also provide little sweetness to product. Dark and milk chocolate consist of Flavonoids which may help to lower blood pressure, Lower The Risk of Cardiovascular Disease, decrease low-density lipoprotein cholesterol, lower blood clot risk. It was concluded that the desiccated coconut chocolate added with Gulkand (CG) was found most acceptable by panel members as compared to Mint (CM) and Basil (CB) samples in terms of color, taste and overall acceptability.

Key Word : *Desiccated coconut, Ulcers, Flavonoids, Gulkand,, Sensory Evaluation.*

Development and Standardization of Jackfruit Pickle and Study of Sensory Analysis

B. D. Rudrawar¹ and V. S. Kale²

Assistant Professor, Department of Food Science and Technology and Research Scholar, K. K. Wagh College of Food Technology, Nashik.

Abstract : Pickles are made from different varieties of vegetables and fruits that are chopped into small pieces and cooked in edible oil with the use of different spices. The jackfruit is rich in dietary fiber, which

makes it a good bulk laxative, the fiber content helps to protect the colon mucous membrane and cancer. It is a good source of antioxidant vitamin C and it is also known as meat analogue. In present investigation an effort has been made to prepare jackfruit pickle with different marinating time with salt. Sample JP2 was found most acceptable by panel members after sensory analysis as compared to JP1 and JP3, as Sample JP2 was added with Jaggery and Jaggery is rich in magnesium which strengthens nervous system and helps to relax muscles and also referred as medicinal sugar because it helps in treating dry cough, indigestion and constipation. Jaggery is rich in iron which helps to prevent anemia. Salt and oil acts as a preservative. Formulation of this pickle can be developed at household or commercial level for helping to solve the health related problems of the society and also to provide taste in our food.

Key Word : *Jackfruit, Meat analogue, Anti-bacterial, Sensory Evaluation.*

Studies on Impact of Inorganic and Integrated use of Nutrients on Yield, Quality of Green Gram (Vigna Radiate L) Vis-À-Vis Chemical Properties of Calcareous Soil of Gujarat

Aware S.B

Assistant Professor, Department of Soil Science and Agril. Chemistry K. K. Wagh College of Agriculture, Nashik- 422 003.

Abstract: A field experiment was conducted on a clayey soil texture and alkaline in reaction with $pH_{2.5}$ 8.0 and $EC_{2.5}$ 0.56 dSm^{-1} on green gram with ten treatments in a randomized block design at the research farm of JAU, Junagadh (Gujarat) to assess the impact of different management practices on growth, yield, and quality parameters of green gram and soil properties. Application of RDF (20:40, N:P₂O₅ kg ha⁻¹) + 20kg K₂O ha⁻¹ + 20 kg S ha⁻¹ + FYM at 5t ha⁻¹ + Rhizobium at 20 g kg⁻¹seed + PSB 20g kg⁻¹seed + 1% FeSO₄ at 30 and 45 DAS + ZnSO₄ at 1% foliar spray at 30 and 45 DAS + Trichoderma harzianum at 2.5kg ha⁻¹ at the time of sowing significantly influenced on growth parameter viz., plant height at harvest and number of branch per plant, seed and straw yield, yield attributes and quality parameter viz., seeds per pod, number of pod per plant, nodules at 45 DAS, test weight, protein content and soil available nutrient N, P₂O₅, K₂O, S and micronutrient (Fe, Mn, Zn and Cu) over the absolute control.

