

SCHOOL OF

AGRICULTURE

(Revolutionize in the Farm Education)

NEWS LETTER-VOL 2

JANUARY - JUNE 2024





"Cultivate Your Potential, Harvest Your Dreams"

Dr. G. Bhupal Raj

Dean

School of Agriculture

Dean's Message:

Dear Students, Faculty, and Staff,

Our Mantra "Cultivate Your Potential, Harvest Your Dreams" encapsulates our dedication to fostering an environment where every student can thrive and achieve their fullest potential. Our school is where knowledge meets innovation, and dedication is met with opportunity. We are committed to providing the resources, guidance, and support needed to turn your dreams into reality. Just as a farmer nurtures each seed, we are here to nurture your academic and personal growth.

This semester, we are launching initiatives to enhance learning, promote cutting-edge research, and strengthen industry ties. These efforts will equip you with the skills and knowledge to excel in a rapidly evolving field. From advanced research opportunities to hands-on learning experiences, we are here to support you in every step of your journey. Thank you for being an essential part of our community. Let's work together to cultivate your potential and harvest your dreams.



Dr. Tithli Sadhu

Assistant professor

Assoc. Dean's Message:

As we continue our journey at the School of Agriculture, I am excited to embrace our theme, i.e., "Cultivate Your Potential, Harvest Your Dreams." This message serves as a reminder of the incredible opportunities that lie ahead and the commitment, we have to nurturing the growth and success of every student.

Agriculture is a field that requires passion, dedication, and a willingness to innovate. Our school is dedicated to providing an environment where you can explore your interests, develop your skills, and achieve your aspirations. By cultivating your potential, you are setting the stage for a future where your contributions will make a lasting impact on world. Remember, the journey of cultivation requires patience, effort, and resilience. Embrace challenges, celebrate successes, and never stop striving for excellence. Together, we will plant the seeds of innovation and reap the harvest of success.

Thank you for being a vital part of our community.



Dr. M. Mohana Keerthi

Assistant Professor (Agronomy)
School of Agriculture

Head's Message:

I wanted to take a moment to reflect on our recent remarkable achievements and share some exciting developments within our School of Agriculture. Over the past six months, we made significant strides. We successfully introduced 12 different Experiential Learning Modules and allotted 18 RAWEP Villages for student engagement. More than 70 students were attached to various agro-industries, the final year students conducted over 80+ field demonstrations for the farming community. Additionally, over 20+ students secured internships with central government and private organizations/institutions, earning monthly stipends. We also achieved placements for more than 90+ students in private agriculture based companies and NGOs. Three of our final year students cleared the Common Management Admission Test (CMAT) conducted by the Department of Higher Education, India. We organized essay writing, spot painting, and photography competitions for students. Our students published 2 patents in the field of modern agriculture, and over 50 student-led field activities were featured in daily newspapers. We also arranged 15+ exposure visits to fields, industries, and institutions for students.

Our faculty members made notable contributions as well. 24 faculty members received awards, such as Best Performer and Lifetime Achievement, from various national and international conferences. We organized more than 30+ expert talks, bringing in business leaders, young professionals, scientists, and industry experts to engage with Students, Scholars, and Faculty. Our faculty and Ph.D. scholars published over 30+ Scopus-indexed papers. Faculty members attended more than 50+ national and international workshops, training sessions, and conferences. In addition, we hosted 10+ trainings, workshops, webinars, and conferences. We celebrated important occasions such as International Women's Day, World Soil Day, World Pulses Day, World Forest Day, World Water Day, and World Environment Day. We also

conducted a Parent-Teacher Meeting and Kishan Ghosti and inaugurated the Meteorological Observatory (Type B).

I am incredibly proud of the hard work and dedication everyone displayed. Together, we fostered a culture of innovation and collaboration, and I look forward to continuing this progress as we move forward. Looking ahead, we have some exciting opportunities on the horizon, including [upcoming events, projects, or initiatives. I encourage everyone to stay engaged and share your ideas as we continue to grow and adapt. Thank you for your ongoing commitment and enthusiasm. Let's make the upcoming Academic Year even more productive and inspiring!

Conducted International Conference on "Holistic Innovations & Technological Advances for Sustainable Agriculture" (04 March – 06 March 2024)





Experts dwell on sustainable progress

HANS NEWS SERVICE

THE three-day sixth international conference on Holistic Innovations and Technological advances for Sustainable Agriculture (HI-TASA-2024) regamined by the School of Agriculture, SR University (SRU) in association with Set Konda Lakshman Fellomgans State Alashman Fellomgans State (Section 1997) (Section 1997) (Section 1997) (Section 1997) (Section 1997) (Section 1997) (Centre got underway at NRI Almani Audstorium, KMC. Warangal, on Monday.

University Vice Chancellor of subsistence coupled will

iversity Vice Chancellor
B Neeraja Prabhakar,
o chaired the session,
eld the goals of sustainlity and the importance

on modern conservation technologies
The chief guest Dr. Sami Reddy, Director, ICAR-NI-ASM, Baramati, quoted that the panchabhootha. the five elements of nature are significant in attaining sustainability and cited about the

Entinent professionals, deans, directors, and young scientists from various agricultural institutions world across participated in the conference physically or virtually. All the professors and faculty of SOA, actively participated in the smooth orresponse of the conference.

LIFETIME ACHIEVEMENT AWARD by **Just Agriculture Edu. Group & ISAHRD**, Chandigarh, **Punjab** for the outstanding contribution in the field of Soil Science





Conducted "Nature Nexsus" on the occasion of World Environment Day







Farewell party to outgoing final year **B.Sc.(Hons)**Agriculture students was arranged by juniors in the grounds of the School of Agriculture on 27th April, 2024





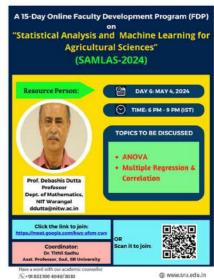
15 days online Faculty Development Program (FDP) on "Statistical Analysis and Machine Learning for Agricultural Sciences (SAMLAS-2024) 29 April to 13 May 2024"









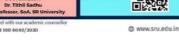




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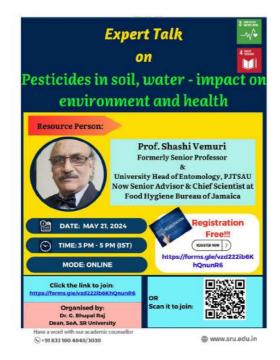




Expert Talk on Pesticides in Soil. Water – impact on e

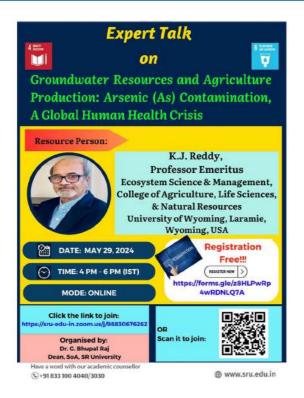
"Pesticides in Soil, Water – impact on environment and health"

Date: 21 May 2024



Expert Talk on

"Groundwater Resources and Agriculture Production: Arsenic (As) Contamination, A Global Human Health Crisis" Date: 29 May 2024

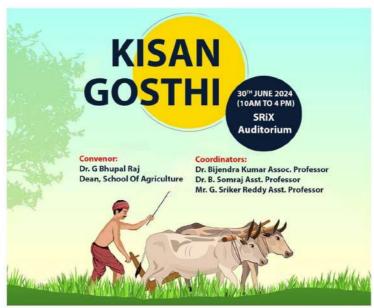


The SRU-School of Agriculture organized a "Kisan Gosthi" program by the Agricultural Instructional Farm

Date: 30th June 2024

Time: 10:00 AM to 4:00 PM

Venue: SRiX -SR Innovation Exchange Auditorium



For more Details contact +91 9849366130

www.sru.edu.in

SR University signed MoU with Prakasham Krishi Vignan Kendra (ICAR funded KVK) for School of Agriculture.



Exciting Learning Experience at College of Agriculture, PJTSAU, Warangal! Students from SR University's School of Agriculture enjoyed an enriching visit to the College of Agriculture, PJTSAU, Warangal



Proud to celebrate World Environment Day at SR University's School of Agriculture! Our Esteemed Dean, Associate Dean, Head and dedicated students came together to plant saplings and nurture our planet.







Congratulations students for completing Industrial attachment in Mulukanoor Women's Cooperative Dairy



Memorandum of Understanding between the School of Agriculture - SRU & ICAR- Indian Institute of Millets (ICAR-IIMR), Hyderabad!



Patent Published:

Inventor: Janga Rohith Reddy

B.Sc(Hons.) Agriculture- 4th year Student

| (71)Name of Applicant: 1)SR University Address of Applicant:SR University, Ananthasagar, Warangal, Telangana, India (IN) Email ID: patent@sru.edu.in Mb: 08702818333 Warangal Name of Applicant: NA Address of Applicant: NA (72)Name of Inventor: 1)Janga Rohith Reddy Address of Applicant:Reddigadem, Tadvai, Mulugu, Telangana, India - 506347 Mulugu |
|--|
| |

Inventor: D. Rajkamal

B.Sc(Hons.) Agriculture- 4th year Student

No. of Pages: 20 No. of Claims: 10

| (19) INDIA | ATION PUBLICATION | (21) Application No.202441016144 A | |
|--|--|--|--|
| (22) Date of filing of Application :97/03/2024 | | (43) Publication Date: 22/03/2024 | |
| (54) Title of the invention | on : AGRICULTURAL MACHINE | | |
| (51) International classification (86) International Application No | : A01B63/02, A01B3/00, A01B63/10, A01B63/12, A01B69/00, A01C15/00, A01C21/00, B62D6/00 :NA | (71)Name of Applicant: 1)SR University Address of Applicant: SR University, Ananthasagar, Warangal, Telangana, India (IN) Email ID: patent@sru.edu.in Mb 08702818333 Warangal | |
| Filing Date (87) International Publication No | :NA :NA | Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : | |
| (61) Patent of Addition to Application Number Filing Date | :NA :NA | 1)D. Rajkamal Address of Applicant :13-3-123/1, ashok nagar colony, Bhadrachalam, Khammam District Telangana Bhadrachalam | |
| (62) Divisional to Application Number Filing Date | :NA :NA | Annes anterconnected | |
| arranged on the machin (118a-118n) paired with ploughs (124a-124d) co- agricultural land upon the detected conditions manipulation signal and | e (100) for detecting conditions of an agri a chain drive (120) to enable a tracked in nnected to a plough frame (122) using a s be swivel motion of the plough frame (12; from the sensors (108) into a first set of at a second manipulation signal to enable at 16d), and the field support wheels (118a- | chine (100) is disclosed. The machine (100) comprising sensors (108) cultural land. Idler wheels (116a-116d) and field support wheels subblity of the machine (100). The machine (100) further comprises haft (126) and adapted to perform a ploughing action in the 2). A control unit (128) configured to: receive, analyze, and classify tributes and a second set of attributes; and transmit a first in adjustment of the ploughs (124a-124d) and cruble an adjustment of 118n) respectively. Claims: 10, Figures: 6 Figure 1A is selected. | |

Patent Granted:

Inventor:

Dr. Gireesha D

Assistant Professor

Department of Plant Pathology, School of Agriculture SR University



List of Publication:

| Faculty Name | Publication Details |
|-----------------------|---|
| Dr. G. Bhupal Raj | Book Chapter Digital Soil Mapping: concepts, methods, and applications-Remote sensing and GIS perspectives In the Book Remote Sensing of Soils: Mapping, Monitoring, and Measurement, 2024, pp. 195–212 DOI: https://doi.org/10.1016/B978-0-443-18773-5.00018-1 |
| | Conference Paper Proceedings - 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024, 2024 |
| | Predictive Modeling of Crop Yield in Precision Agriculture Using Machine Learning Techniques |
| | DOI: https://doi.org/10.1109/ACCAI61061.2024.10602450 |
| | Conference Paper Proceedings - 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024, 2024 |
| | Remote Monitoring and Control of Agricultural Systems Using IoT and Machine Learning |
| | DOI: https://doi.org/10.1109/ACCAI61061.2024.10602186 |
| | Conference Paper 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT 2024, 2024 |
| | An Innovative Method for Paddy Yield Prediction Based on DCNN-ELM Approach |
| | DOI: https://doi.org/10.1109/IDCIoT59759.2024.10467772 |
| | Conference Paper IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023 Empowering Sustainable Agriculture through IoT: Innovations for Precision Farming and Crop Monitoring |
| | DOI: https://doi.org/10.1109/ICSSS58085.2023.10407883 |
| Dr. M. Mohana Keerthi | Conference Paperv Proceedings of 2024 International Conference on Science, Technology, Engineering and Management, ICSTEM 2024 |
| | Integrating IoT and Machine Learning for Smart Irrigation Systems in Agriculture |
| | DOI: https://doi.org/10.1109/ICSTEM61137.2024.10561002 |
| Dr. B. Srinu | Research Article African Journal of Biological Sciences |
| | IBiological Control OfCrop Pests: Exploiting Natural Enemies And Molecular Tools |
| | DOI: https://doi.org/10.48047/AFJBS.6.Si4.2024.3579-3590 |
| | Research Article African Journal of Biological Sciences |
| | Different Growth Stages Of Tomato (Solanum |
| | Lycopersicuml.) Heem Sohna Variety As Impactedby Npk Fertigation Levels, Irrigation Levels And Mulching During Rabi Grown Under Poly House Condition |
| | DOI: https://doi.org/10.48047/AFJBS.6.13.2024.766-772 |

| Tr. | |
|-------------------------------|--|
| Dr. T. Soujanya | Conference paper Fire Hawk Optimization based Multi-objective Dynamic Load Balancing in Cloud Computing International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 DOI: https://doi.org/10.1109/ICDCOT61034.2024.10516057 |
| | Conference Paper |
| | Automatic License Plate Recognition Using K-Nearest Neighbour Approach International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 |
| | DOI: https://doi.org/10.1109/ICDCOT61034.2024.10515630 |
| | Conference Paper Chi-Squared Based Text Convolutional Neural Network for Fake Consumer Review Classification International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 DOI: https://doi.org/10.1109/ICDCOT61034.2024.10516186 |
| | DOI: 11ctps://doi.org/10.1105/10200101054.2024.10510100 |
| Mr. Ch. Suchith Kumar | Conference Paper |
| | Hydroponics - The future of farming |
| | AIP Conference Proceedings, 2024, 2971(1), 040050 |
| | DOI: https://doi.org/10.1063/5.0195743 |
| | Conference Paper |
| | Evaluation of heterosis in the genotypes of maize (Zea mays L.) |
| | AIP Conference Proceedings, 2024, 2971, 040047 |
| | DOI: https://doi.org/10.1063/5.0196109 |
| | Conference Paper Novel Deep Learning Approaches to Environmental Management with Sustainability Proceedings of International Conference on Communication, Computer Sciences and Engineering, IC3SE 2024, 2024, pp. 1484–1489 DOI: https://doi.org/10.1109/IC3SE62002.2024.10593298 |
| | Book Chanter |
| | Book Chapter IClimate change mitigation through AI solutions; |
| | Gastronomic Sustainability Solutions for Community and Tourism Resilience, 2024, pp. 37–59 |
| | DOI: https://doi.org/10.4018/979-8-3693-4135-3.ch003 |
| Mr. Karthik HP | Conference Paper Assessment of spatio-temporal dynamics of land use in Mysuru city, India AIP Conf. Proc. 2971, 040053 (2024) DOI: https://doi.org/10.1063/5.0195738 |
| Dr. Vaibhab Bhagwan Pandit | Book Chapter Impact on blochar on soil, crop and climate sustainability in Agricultural Soil Degradation and Restoration 2024, Pages 221-236 DOI: https://doi.org/10.1016/B978-0-443-18486-4.00004-X |

| Dr. B. Somraj | Research Article Annals of Phytomedicine: An International Journal |
|---------------------------------|--|
| | Herbs that heal: A review update on nutritional, medicinal values, healing, and pharmacological properties of green leafy vegetables |
| | DOI: http://dx.doi.org/10.54085/ap.2024.13.1.119 |
| | Research Article Annals of Phytomedicine: An International Journal A comprehensive review of omega-3 fatty acids: Sources, industrial applications, and health benefits |
| | DOI: http://dx.doi.org/10.54085/ap.2024.13.1.110 |
| Ms. M. Sravya | |
| | International Journal of Experimental Research and Review, 2024, 41, pp. 19-42 |
| | An Unravelled Potential of Foliar Application of Micro and Beneficial Nutrients in Cereals for Ensuring Food and Nutritional Security |
| | DOI: https://doi.org/10.52756/ijerr.2024.v41spl.003 |
| Dr. Gireesha D | Research Article Biochemical And Cellular Archives Morphological And Biochemical Characterization Of Bacillus Subtilis Isolated From Rhizosphere Of Sugarbeet Biochem. Cell. Arch. Vol. 24, No. 1, pp. 1077-1082, 2024 DOI:https://doi.org/10.51470/bca.2024.24.1.1077 |
| | Research Article Legume Research- An International Journal Integrated Management of Stem and Root Rot of Cowpea Caused by Macrophomina phaseolina (Tassi.) Goid. using Fungicides, Bioagents and Organic Manures DOI: https://doi.org/10.18805/LR-5325. |
| Dr. Supriya babasaheb Aglawe | Book Chapter Role of Neglected Potential Crops in Climate Resilient Sustainable Agriculture in S. Sheraz Mahdi et al. (eds.), Adapting to Climate Change in Agriculture- Theories and Practices, DOI:https://doi.org/10.1007/978-3-031-28142-6_6 (2024) |
| Dr. J. Vamshi | Conference paper INovel Plant Leaf Disease Detection Approach using Hybrid Deep Learning Strate Proceedings - 2024 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks, ICICV 2024 |

Conference Paper

Modern challenges in agriculture

Chunchu Suchithkumar; Sreekanth Reddy;

Prashanthi Divyavani; Sai Divya; Mutha Sravya; Manju Mani; Geetha Manoharan

AIP Conference Proceedings

DOI: https://doi.org/10.1063/5.0195744

Research Article

Annals of Phytomedicine: An International Journal

Fruits that heal: A comprehensive review on bioactive compounds and therapeutic properties of fruits and their implications on human health

B. Somraj, B. Kalpana, J. Karunakar, P. Saidaiah, B. Srinu & A. Geetha DOI: http://dx.doi.org/10.54085/ap.2024.13.1.3

Research Article

Annals of Phytomedicine: An International Journal

A comprehensive review of biochemical, functional, and dietary implications of Gluten

Zeenath Banu, B. Somraj, A. Geetha, Adnan A. Khan, B. Srinu,

J. Vamshi, J. Karunakar and Pidigam Saidaiah

DOI: http://dx.doi.org/10.54085/ap.2024.13.1.86

Research Article

Crop Res. 58 (3 & 4): 107-115 (2023) Printed in India

Precision nitrogen management in aerobic system for maximising paddy (Oryza sativa L.) yields: A review

Murugesan Mohana Keerthi1, Pooja Srivastav1, Govindhasamy

Rajasekar2, Arasu Arun3 And Rajagopalan Babu4

DOI: https://doi.org/10.31830/2454-1761.2023.CR-910

Book Chapter

PRole of Soils for Satisfying Global Demands for Food, Water, and Bioenergy

Bhabani Prasad Mondal, G. Bhupal Raj, Mahima Dixit, Tithli Sadhu, Vaibhav Pandit, Laxmi Prasanna, Arghya Chattopadhyay, Suman Dutta, Suchith Kumar

In the book

Environmental Nexus for Resource Management

Edited ByHanuman Singh Jatav, Tatiana Minkina, Satish Kumar Singh, Bijay Singh, Vishnu D. Rajput Jatav, H.S., Minkina, T., Singh, S.K., Singh, B., & Rajput, V.D. (Eds.). (2024). Environmental Nexus for Resource Management (1st ed.). CRC Press.

https://doi.org/10.1201/9781003358169