



## National Seminar on

### Agricultural Extension for *Viksit Bharat* : Innovations and Strategies for Sustainable Development

December 6 – 7, 2024



Jointly Organized by

Society of Extension Education, Gujarat  
and

Navsari Agricultural University , Navsari

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Central Examination Hall, N AU, Navsari - 396 450

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## **Preamble**

Agricultural Extension stands at a pivotal point, where its traditional roles must evolve to meet the growing complexities of modern agriculture. With the rapid advancement of technology and the increasing challenges of climate change, sustainability, and food security, the discipline requires a continuous renewal of its methods, tools, and approaches. Looking ahead, agricultural extension must not only address current issues but also anticipate future demands, ensuring it remains competitive and effective in supporting farmers. This involves providing diverse, timely, and innovative extension services to adapt to the changing landscape of agriculture. To address these needs, a National Seminar on "Agricultural Extension for Viksit Bharat: Innovations and Strategies for Sustainable Development" is being organized. This seminar will serve as a vital platform for professionals, policymakers, farmers, and administrators to share insights, experiences, and strategies that drive innovation and support sustainable agricultural development. It will play a crucial role in shaping the future of agricultural extension, ensuring it continues to be a key driver of rural and agricultural progress in a rapidly changing world.

## **The Society of Extension Education, Gujarat**

The Society of Extension Education, Gujarat, established in 1990, is dedicated to advancing research in extension education and promoting its practical application for the betterment of the farming community. Headquartered at Anand Agricultural University, Anand, the society currently boasts 1600 life members. It has played a pivotal role in fostering the exchange of ideas, encouraging cutting edge research, and effectively disseminating knowledge to farmers and stakeholders. The society regularly organizes seminars, symposia, and conferences on contemporary issues at both national and international levels, providing a valuable platform for dialogue and collaboration. Its flagship publication, the biannual Gujarat Journal of Extension Education, holds a NAAS rating of 5.30 (ISSN 2322-0678) and serves as a crucial resource for academics and practitioners alike. Over the years, the society has produced numerous seminar proceedings, souvenirs, and policy recommendations that have had a lasting impact on agricultural extension practices. Additionally, it recognizes and rewards excellence in the field by honoring extension scientists, farmers, and students with various awards, fostering innovation and development in agriculture through extension efforts. Comprehensive information about the society, its life members, back volumes of the journal, and award details can be accessed at [www.gjoe.org](http://www.gjoe.org).

## **Navsari Agricultural University (NAU)**

The iconic educational and farmers welfare institute of South Gujarat, Navsari Agricultural University (NAU) with its headquarter in Navsari came into existence with the promulgation of Gujarat Agricultural University Act 2004 on May 1, 2004. NAU's jurisdiction covers seven districts of South Gujarat viz., Surat, Navsari, Bharuch, Valsad, Narmada, Tapi and Dang. At present, there are seven colleges imparting five bachelor, twenty seven Master and twenty one doctoral degree programmes. NAU has the following faculties: Agriculture, Horticulture, Forestry, Agribusiness Management, Agricultural Engineering and Agricultural Biotechnology. Further, there are 25 research centres at 15 locations to carry out need based research on mandate crops viz., paddy, sugarcane, cotton, sorghum, small millets, mango, banana, sapota and vegetables. The NAU has extensive reach to the farmers and covers sprawling South Gujarat through its 5 *Krishi Vigyan Kendras* located at Navsari, Surat, Waghai, Vyara and Dediapada and Sardar Smruti Kendra, T & V and ATIC at Navsari to undertake dissemination of latest technologies to end users in seven districts of South Gujarat.

Navinchandra Mafatlal College of Agriculture Known as N. M. College of Agriculture was the first educational institute related to agriculture in the region of South Gujarat established in May-1965 with a vision to impart agricultural education and uplift the socio-economic status of the

agricultural based community. N. M. College of Agriculture, NAU, Navsari is stands at historic milestone, the Diamond Jubilee. As we mark this significant occasion, Department of Agriculture Extension and Communication, N. M. College of Agriculture, NAU, Navsari has planned to organize a National Seminar during December 6 – 7, 2024, in collaboration with Society of Extension Education Gujarat, Anand.

### **Thematic Areas**

- 1. Novel Extension Approaches for Reshaping Indian Agriculture:** Farmers empowerment and their intensive use in extension network it includes Farmers organizations, farmers producers company and intensive use of farmer field schools. Enhancing outreach of ongoing models includes front line and field extension. Integrating private sectors effort in extension viz PPPs in extension management, use of input dealers, agri-preneurs, and startups in promoting extension. Strengthening of R & D linkages, feedback management, technology mapping and enhanced research backstopping to extension. Revisiting training and capacity building efforts, it includes training for extension functionaries, farmers, farm women and farm youth. Extension planning/prioritization and convergence, ATMA: convergence platform, convergence with other GoI programmes, block extension plan. Media and information support in extension it includes information sources of farmers, media management for promotion of extension, DD Kisan Krishi darshan, community radio station and social media.
- 2. Extension Services for Climate - Smart Agriculture and Sustainable Development Goals :** Extension services for Climate Smart Agriculture and Sustainable Development Goals a variety of topics related to sustainable agriculture and environmental stewardship will be discussed. Topics will include farming system research and extension grounded in natural farming principles, as well as the role of Indigenous Traditional Knowledge (ITK) in promoting agricultural sustainability. Discussions will also address family farming, organic farming, and other eco-friendly approaches, including cow-based farming and insecticide-free practices. Resource use management, value addition, and the use of renewable energy in agriculture will be key areas of exploration, along with their broader impacts. Participants will engage with best practices for groundwater recharge and water harvesting. The national seminar will similarly examine the effects of global warming on agriculture and livestock production, while considering the impact of climate change and discussing potential mitigation strategies to ensure the resilience of farming systems.
- 3. Entrepreneurship Development & Public-Private Partnerships in Agricultural Extension :** Human resource development and entrepreneurship will be key themes. Subthemes will include human resource development through training and entrepreneurial development, with a focus on fostering entrepreneurial characteristics and behavior. Discussions will also cover impact assessment, identifying constraints faced by entrepreneurs, and examining case studies of successful ventures. Innovative entrepreneurial options will be emphasized, along with the importance of training for human resource development. Additionally, the subthemes will delve into organizational development and management, emphasizing strategies for fostering growth and sustainability in entrepreneurial environments.
- 4. Capacity Building for Agricultural Extension Professionals:** Capacity Building for Agricultural Extension Professionals will cover several key subthemes aimed at enhancing the skills and knowledge of extension workers. These include training for development and examining the impact of government programs on agricultural and rural development. The role of Farmer Producer Organizations (FPOs), Farmer Organizations (FOs), and cooperatives in empowering farmers will also be discussed. Additionally, the national seminar will explore into various extension models such as demand-driven extension, market-led extension, commodity-based extension, contract-based extension, and corporate extension. Topics like group-based extension, participatory extension, public-private partnerships (PPP), and the involvement of NGOs, Intellectual Property



Rights (IPR), and World Trade Organization (WTO) frameworks will be examined. The role of Agricultural Produce Market Committees (APMCs), NGOs, marketing channels, supply chains, and value chain management will also be addressed as key factors in enhancing marketing efficiency for agricultural products.

**5. Digital Platforms for Agricultural Extension: Empowering Farmers in *Viksit***

**Bharat:** Digital Platforms for Agricultural Extension: Empowering Farmers in *Viksit Bharat* will explore various subthemes centered on the use of digital tools to support and enhance agricultural extension services. Key topics will include the application of Information and Communication Technology (ICT) tools for extension research, information management, and the dissemination of technology. IT-based initiatives will be discussed, alongside the role of mass media and print media in reaching farmers. The national seminar will also focus on information delivery mechanisms, the growing role of e-commerce in agriculture, and the provision of digital advisory services. Information and communication management in agriculture will be addressed, as well as the adoption of advanced technologies such as remote sensing and Geographic Information Systems (GIS) to improve agricultural practices and outcomes.

**6. Gender Perspectives in Agricultural Extension: Sensitization and Empowering Women Farmers:**

The differential needs of women farmers and the problems they encounter will be addressed, with a focus on promoting gender sensitivity and mainstreaming in technology generation and dissemination. The vital role of women in kitchen gardening and kitchen waste management will be discussed, along with the contributions of Sakhi Mandals and Self-Help Groups (SHGs) in empowering women under the subtheme of "Gender Perspectives in Agricultural Extension: Sensitization and Empowering Women Farmers." The national seminar will also examine various women empowerment programs, their impact, and present case studies and success stories. Additionally, the role of women in ensuring food and nutritional security will be explored, as well as their decision-making ability, patterns, and styles in agricultural practices.

**7. Navigating from Farm Future with Advanced Technology and Empowering for a Resilient Tomorrow:**

Intersection of technology and sustainable agriculture. Precision agriculture will be discussed in depth, exploring the use of GPS, drone technology, soil sensors, and data analytics for optimizing crop management. The seminar will also enquire into digital farming, highlighting farm management software, apps, online marketplaces for inputs and outputs, and digital extension services that enhance farmer productivity. Artificial Intelligence (AI) in agriculture will be another key focus, with discussions on AI-powered crop prediction, automated farming systems, robotics, and AI-driven decision support systems for farmers. Additionally, big data and analytics will be explored, emphasizing the importance of data-driven insights in farm decision-making, predictive analytics for crop yields, and market trends. Blockchain technology in agriculture will be discussed in the context of supply chain management, traceability, transparency, and farm-to-table tracking. The seminar will also address ways to empower farmers with technology, such as providing access to credit and financial services. Next-generation farming techniques like vertical and indoor farming, urban agriculture, rooftop farming, regenerative agriculture, and permaculture will be highlighted as innovative solutions for future farming. In addition, the future of work in agriculture will be a major theme, exploring the impact of automation and AI on agricultural jobs, the need for new skill sets, and evolving career paths in agricultural technology. AI-enabled agricultural extension will be discussed in terms of raising awareness among farmers, understanding their attitudes and perceptions, and implementing AI-powered decision support systems. Emerging technologies, including the use of drones, nanotechnology, and the Internet of Things (IoT) in smart agriculture, will also be examined. The seminar will further explore nature-based solutions for addressing land use, highlighting the integration of sustainability with technological advancements in farming practices.

## Participants

Members of SEEG and other extension education societies are expected to participate in large numbers, besides a wide participation of delegates from Government departments, NGOs, other voluntary organisations, IT specialists, agriculture policy makers, farmers and students are also being envisaged.

## Call for Papers

The paper should be based on original research focusing on the thematic areas of the seminar. The participants are requested to contribute review or data based research papers, case studies on sub areas of the main themes. The abstract should not be exceeding more than 300 words and the full length paper (Maximum 3000 words) to be submitted in soft copy of MS word (font size: 12 point in Times New Roman, single spaced spacing). Abstract should have a cover page with details like Title, Name(s) of the author(s) (Maximum 3 authors), Address for correspondence, e-mail ID, WhatsApp Phone No. and Thematic area.

For Poster presentation the recommended size is 36" × 24" with beautiful colour combination. The abstract should reach to the Organizing Secretary of the Seminar by e-mail on or before 20<sup>th</sup> October, 2024. The e-mail ID is: **seegseminar2024@gmail.com**

## Acceptance of abstract

The information about acceptance of the abstract will be communicated to the corresponding author only via e-mail. The submission by Non SEEG members should be done along with Rs. 600/- per abstract by DD to meet the cost of compendium of the abstract of the National Seminar. Quality full length research paper will be published in special volume of society journal "Gujarat Journal of Extension Education" (NAAS rating 5.30).

## Registration Fee

|                               |   |          |
|-------------------------------|---|----------|
| Life Member of SEEG           | : | ₹ 4000/- |
| Life Member of SEEG (Student) | : | ₹ 2000/- |
| Retired life member           | : | ₹ 1000/- |
| Non member participant        | : | ₹ 5000/- |
| Foreign Delegate              | : | \$ 200/- |
| Accompanying person           | : | ₹ 2500/- |

The registration fee should be sent in advance through DD/Cheque drawn in favour of 'Organizing Secretary National Seminar, SEEG-2024' payable at SBI, Navsari Agriculture University Branch. Spot registration facility will also be available.

Account Details for remitting the fee:

**Account Number: 43383257315**

**Name:** National Seminar SEEG 2024

**Bank name & Branch:** SBI, Navsari Agricultural University

**IFSC Code:** SBIN0003889

## Important Dates

|                                 |   |                                |
|---------------------------------|---|--------------------------------|
| Submission of abstract          | : | 31 <sup>th</sup> October, 2024 |
| Submission of full length paper | : | 5 <sup>th</sup> November, 2024 |
| Request for accommodation       | : | 31 <sup>th</sup> October, 2024 |
| Application for Award           | : | 31 <sup>th</sup> October, 2024 |

## **Patron**

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Hon'ble Vice Chancellor  
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Navsari

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Director of Research & Dean PG Studies  
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Navsari

## **Co-chairman**

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Director of Extension Education  
Navsari Agricultural University  
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Dr. R. M. Naik  
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Ex. Director of Extension Education  
AAU, Anand

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Associate Professor  
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## **The SEEG Awards:**

The Society of Extension Education, Gujarat has instituted the following awards:

### **A) For Students:**

1. Shri Khushalbhair Revabhai Patel Medal cum Cash Prize for the Best Undergraduate of State Agricultural Universities of Gujarat
2. Anuj Arun Patel Best Academic Achievement Award for Master Degree in Agricultural Extension for Gujarat State
3. Ushaben Jayantilal Patel Best UG Student Award for AAU, Anand
4. Kiranben Navinchandra Soni Best PG Student Award for AAU, Anand
5. Shri Nanubhai Laljibhai Mayani Best UG Student Award for NAU, Navsari
6. Late Maniben Gordhanbhai Bhalia Best PG Student Award for NAU, Navsari
7. Govindbhai Keshavjibhai Bhojani Best UG Student Award for JAU, Junagadh
8. Dr. T. L. Dholariya Best PG Student Award for JAU, Junagadh
9. Dr. Sarita Sanwal Best UG Student Award for SDAU, Sardarkrushinagar
10. Fayeza Murtuzakhan Tunvar Best PG Student Award for SDAU, Sardarkrushinagar
11. Best Paper Presentation Awards
12. Best Poster Presentation Awards

### **B) For Extension Professional:**

1. Best Extension Professional Award
2. Best Extension Scientist Award
3. Best Young Extension Scientist Award
4. Late Champaben Vallabhbhai Mayani Best Women Scientist Award
5. Best Paper Presentation Awards
6. Best Poster Presentation Awards

### **C) For Farming Community:**

1. Best Innovative Farmer Awards: This award is given to eight farmers of different districts of Gujarat state who are recommended by respective Krushi Vigyan Kendra (KVK) and Director of Extension Education of the State Agricultural University (Anand Agricultural University/ Junagadh Agricultural University/ Navsari Agricultural University and Sardarkrushinagar Dantiwada Agricultural University) every year.

For details of award please visit our website [www.gjoe.org](http://www.gjoe.org). The applicants willing to contest may send their resume (in hard copy) as per the format before the last date (31<sup>st</sup> Oct, 2024) to the President, Society of Extension Education, University Bhavan, Anand Agricultural University, Anand 388110. The aspirants of various awards must be present physically during the SEEG National Seminar.

## **How to Reach**

Navsari is a district place in Gujarat and easily approachable by road, rail and air from all major cities of India. It is just 38 km away from Surat, a major industrial corridor connected by road and railways. The nearest airport is Surat which is 40 km to the North of Navsari. The 241 miles long Salt March taken up by Mahatma Gandhi in 1930 culminated at Dandi a coastal village 13 km to the West of Navsari where National Salt Satyagraha Memorial at Dandi is located.

## **Climate and Weather**

The climate of Navsari remains pleasant during month of December. The temperature varies from 17° to 35° C during the month of December. Located at an elevation of None meters (0 feet) above sea level, Navsari has a Tropical wet and dry or savanna climate. The district's yearly temperature is 29.9°C (85.82°F). Navsari typically receives about 24.2 millimeters (0.95 inches) of precipitation and has 29.28 rainy days (8.02% of the time) annually. It is a starting month of winter that makes perfect Gujarat climate in December for travelling.

### **Accommodation**

Registered participants and delegates will be accommodated in various guesthouses of NAU, Navsari on first come first serve basis. The guesthouse charges have to be met by the participants themselves. For accommodation please contact Dr. P. B. Khodifad (Mob. 7567183448, Email: pbkhodifad@nau.in).

Application for accommodation may please be sent in advance so as to avoid last minute inconvenience. Breakfast, lunch and dinner for the participants will be arranged by the organizing committee during the seminar.

### **Membership Fee to be a new member of the society**

|                                 |   |                       |
|---------------------------------|---|-----------------------|
| Life member (India)             | : | ₹ 5000/-              |
| Life member (Overseas)          | : | \$ 50/-               |
| Corporate/ Institutional member | : | ₹ 6000/- for 10 years |
| Patron                          | : | ₹ 10000/-             |

Membership fee should be sent to The Secretary, Society of Extension Education, Directorate of Extension Education, University Bhavan, Anand Agricultural University, Anand – 388110, Gujarat. The Demand Draft should be issued in favour of 'M S of Extension Education' payable at Anand or through online money transfer to Central Bank of India, A/c No. 1215785307, IFSC No. CBIN0281262, at Institute of Agri. Campus, Anand Branch, Anand-388110 (Gujarat).

### **Correspondence**

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**Registration : Please scan here**



**<https://forms.gle/5Xi8ed65uRPfnaom7>**