

### TECHNICAL SESSION - III

#### Finalization of New technical Programme for 2023-24

- Chairman : Dr. Mruthunjaya C Wali  
Director of Research  
KSNUAHS, Shivamogga
- Co- Chairman : Dr. Srinivasa V.  
Division Head, Horticulture  
KSNUAHS, Shivamogga
- Rapporteur : Dr. Bharath Kumar T P.  
Assistant professor  
College of Horticulture, Mudigere (Zone-9)
- Dr. Ullasa M. Y.  
Scientist  
KVK, Mudigere (Zone-9)

#### Head of the divisions of 10 departments presented their new technical programs. Following are the decisions or suggestions taken

Food Science and Nutrition Presented by Dr. L. Bhagirathi

Following scientists have assigned different crop/ areas to work mentioned against their name

Sl. No.	Scientist Name	Area
1	Dr Sudharani N	Value addition in Rice Bran Value addition in Banana
2	Dr Bhagirathi	Value addition in Cashew apple
3	Dr Sneha Shigehalli	Value addition of wild edible fruits
4	Dr Satish H, N.	Value addition in Jack Fruit

Sl. No.	Scientist Name	Title of the project	Remarks
1	Dr. Bhagirathi L	Efficacy of Cashew apple beverages on Asthama patients in VirajpetTq	Rejected
2	Dr. Sudharani, N.	Standardization & development of bakery value added products from Rice bran	Accepted
3	Dr. Sudharani, N.	Standardization of flavored candy from central core of banana pseudo stem	Accepted
4	Dr.SnehaShigihalli	Nutritional & health status among tribal woman of Kodagu district	Rejected

**Remarks:**

1. Concerned scientists should work on assigned area/ crop and should develop marketable products (Value addition, Storage, Packaging Branding, processing).
2. All scientists should submit proposals/ work in project mode with different 3-4 experiments and trials within project

**Forestry – Dr. Devagiri**

**New technical programs of Forestry and environmental sciences was presented by**

**Dr G M Devagiri**

Sl. No.	Scientist	Assigned area of Research
1	Dr. Ramakrishna Hegde	Bamboo & Listea Chinensis, Subabul, Silvi culture
2	Dr. V. Maheshwarappa	Research on agro forestry systems- Clonal evaluation of Teak, Casuarina, meli adubia
3	Dr. Siddappa Kannur	Introduction of RET species in Iruvakki clonal evaluation, Diversity assessment and study of dynamics of untouched forest in Iruvakki Campus
4	Dr. Manjunatha	Carbon crediting/ budget modelling
5	Dr. Shivaputhra Bommanahalli	Work on wild edible fruits
6	Dr. Vasudev lamani	Horti-Silvi System, fodder trees
7	Dr. Nanaya K.M	wild life Management
8	Dr. Satish B. N.	Forest product utilization and value addition of Bamboo and NTFPs, Wild edible fruits, mandarin production / multiplication
9	Dr. Harish	Impact Studies Invasive species of forest, Wood research
10	Dr. Jadeyegowda	Orchids
11	Dr. Ravi Kumar	Mapping of the Iruvakki, Brahmavara and Mudigere campus
12	Dr. Naveen	Economic of agro forestry and forestry ecosystem
13	Dr. Laxmi Balagnoormath	Impact studies of university technologies at Zone-9
14	Dr. Ningaraj Dalawai	Genetic improvement in bamboo, Should submit proposal for revolving fund on tissue culture
15	Dr. Kencharaddi	All apiculture related studies
16	Dr. Gorappanavar Baramappa	Study of microbial diversity in forest ecosystem and coffee ecosystem
17	Dr. Ganesh Prasad T.S	Research on forest extension programme , IFS Studies, Success stories of farmers
18	Dr. Devagiri G.M	GIS and remote sensing

19	Dr. Goudra Pramod Gouda	Value addition in exotic fruits Packing studies for all crops/ products
20	Dr. Imran Khan	Forest disease management Associate with Rice and ginger soft rot
21	Dr. Mohan Kumar N.V	Should work in Rice also
22	Dr. Priya	Seed technologies studies in forest species

### Remarks

- Orchidarium should be established in all campus
- Mapping should be done for Irruvakki, Mudigere and Brahmavara
- English- Assessment of grammar in forestry research publication

Division head should submit the working areas of teachers in below mentioned format

Sl.No.	Name of the scientist	Crop/area assigned	DST/DBT/Any other projects	Revolving fund	Other area

### Horticulture

The new technical programs were presented by University Head (Horticulture) Dr Srinivas V.

Sl. No.	Scientist	Assigned area of Research
1	Dr Kantharaju Y	Value addition of Spice crops
2	Dr Devaraj	Brinjal, Cucumber Muskmelon, Pumpkin, Bottle guard, Summer squash
3	Dr. Raviraj Shetty G.	Pepper, Cashew and Medicinal Crops

Sl.No.	Title of the project	Principal investigator	Remarks
1	Introduction and Suitability of Different Varieties of Kiwi Fruit under Hill zone of Karnataka	Mrs. Sandhya G. C	Accepted
2	Effect of Nutrient Application on Yield and Quality of Avocado under Hill Zone of Karnataka	Mrs. Sandhya G. C	Accepted
3	Studies on <i>in vitro</i> Micropropagation in Banana cv Ney poovan	Mrs. Sandhya G. C	Rejected
4	Effect of pruning levels and time of pruning on growth and yield of Rambutan ( <i>Nephelium lappaceum</i> L)	Dr. H. S. Chaitanya	Accepted

5	Performance of Alstroemeria genotypes under protected conditions.	Dr. S.Y. Chandrashekar	Accepted
6	Effect of Spacing on Growth and Flowering Characteristics of Commercial Cut Flower Hydrangea (Hydrangea macrophylla Thunb.)	Dr. Natraj S K	Accepted
7	Response of orthotropic and plagiotropic sucker cuttings to growth promoters in coffee (Coffea canephora)	Dr. Bhoomika, HR,	Accepted

### Agricultural Extension Education

The new technical programs were presented by Dr Dhananjaya B.C.

Sl. No.	Scientist	Assigned area of Research
1	Dr. Bharath Kumar T. P	<ul style="list-style-type: none"> <li>Impact studies of Paddy varieties released from ZAHRS, Mudigere</li> <li>Soil nutrient status mapping / impact of soil analysis</li> <li>Assessment of Integrated Farming System</li> <li>Success stories documentation</li> </ul>
2	Dr. Lakshmi .B	Impact of zone 9 university technologies
3	Dr. Vinay Kumar H.M	Impact studies on Arecanut Development of material to Youtube and hoisting of videos on Arecanut
4	Dr. A.T. Krishnamurthy	Impact studies of KVK-Mudigere Development of material to Youtube
5	Dr. Mohanakumara V	Farmer's perception and adoption of Sahyadri Panchamukhi submergence tolerant red rice variety among the farmers in Coastal region A study on livelihood analysis of woman involving in Fish marketing in Coastal region
6	Dr. P.S. Dhananjaya swamy	Cost economics of major crops of Zone -9
7	Dr. Dhananjaya B.	Impact studies of KVK-Brahmavara Kalparasa outlet should be opened in KVK

Sl.No.	Title of the project	Principal investigator	Remarks
1	A study on impact of ML-365 Ragi variety on socio-economic status of farmers in Chikkamagaluru district	Dr. A T Krishnamurthy	Rejected

Sl.No.	Title of the project	Principal investigator	Remarks
2	Impact study on Organic farming for livelihood statues of organic farmers in Kodagu district	Dr. Ganesh Prasad	Rejected
3	Up liftment of tribal community through IFS intervention in Kodagu district	Dr. Ganesh Prasad	TSP
4	Establishment of facilities for forestry museum, photography, videography and application of ICT model media for knowledge management	Dr. Ganesh Prasad	External fund
5	Establishment of model Agro-tourism centre at College of Horticulture, Mudigere	Dr. Bharath Kumar T.P.	External fund
6	Attitude of Agricultural Graduates towards Agri Startup Programmes for ATMANIRBHAR BHARAT	Dr. Bharath Kumar T.P.	Rejected
7	Documentation of success stories of awardees' farmers of Chikkamagaluru district of Karnataka state under KSNUAHS	Dr. Bharath Kumar T.P.	Accepted
8	Success stories Documentation of Agri-entrepreneurs of Chikkamagaluru district of Karnataka state under KSNUAHS	Dr. Bharath Kumar T.P.	Accepted
9	Popularization of wild edible fruits, processing and value addition among tribal's to achieve livelihood security in Kodagu district	Dr. Laxmi Balaganoormath	TSP
10	Impact assessment of Bee keeping capacity development programmes conducted at Kodagu district	Dr. Laxmi Balaganoormath	Accepted
11	Entrepreneurial success and behavior of women entrepreneurs engaged in agribusiness	Dr. Sunitha A B	Rejected
12	Sustainable livelihood security of the farmers practicing Integrated Farming System	Dr. Sunitha A B	Rejected
13	Impact of KSNUAHS Released Rice varieties for Coastal Zone'	Dr. Mohankumara V.	Accepted
14	A study on livelihood analysis of woman involving in Fish marketing in Coastal region	Dr. Mohankumara V.	Rejected
15	Establishment of Udupi Coconut Kalparasa Rural Mart	Dr. B. Dhananjaya	External fund

Sl.No.	Title of the project	Principal investigator	Remarks
16	Improvement of Koraga Community through IFS interventions	Dr. B. Dhananjaya	External fund
17	Establishment of Aqua-park and Business incubation centre to augment socio-economic prominence through public private partnership approach	Dr. B. Dhananjaya	External fund
18	Enhancing Off Season Productivity of Vegetable Crops under Rain shelter in Coastal Karnataka	Dr. B. Dhananjaya	External fund
19	Technological gap in adoption of recommended cultivation practices by arecanut growers	Dr Vinay Kumar H M	Accepted
20	Assessing Livelihood Vulnerability and Adaptation Strategies to Climate Change in a Tribal Region of Southwest Karnataka	Dr Vinay Kumar H M	External fund
21	Establishment of Arecanut Museum at AHRS, Sringeri	Dr Vinay Kumar H M	External fund
22	Socio economic impact of natural faming in Chikkamangalur District	Dr. Dhananjaya swamy P.S	Accepted
23	Impact assessment of KHB- 13 and KPR - 1 paddy varieties	Dr. Dhananjaya swamy P.S	Accepted
24	Economic gains of inter-cropping arecanut in silver oak Coffee based farming system in Coorg district of Karnataka	Dr. Naveena K P	Accepted
25	Institutional Marketing of non timber forest products in Coorg district of Karnataka	Dr. Naveena K P	Rejected

Remarks:

1. Agro tourism centers should be established at Mudigere-Dr. Bharath Kumar T .P, Brahnavara- Dr. Mohan Kumar and Coorg-Dr. Ganesh Prasad T.S
2. ATIC should be established at all KVKs.

**Agricultural Engineering, Statistics, Computer science, Library science, Physical education, Kannada, & English**

<b>Sl. No</b>	<b>Title of the Experiment</b>	<b>Name of the scientist</b>	<b>Remarks</b>
1	Fabrication and development of a battery operated pepper catcher for harvesting	Er. V.R.Vinod	Accepted
2	Design and fabrication of a power operated de-husking machine for dry areca nut	Er. V.R.Vinod	Accepted
3	Design of a power operated jackfruit skin peeler	Er. V.R.Vinod	Accepted
4	Design and development of sowing technique/ device for paddy	Dr. Shankar M.	Accepted
5	Design and development of Udupi Jasmine knotting machine	Dr. Shankar M.	Accepted
6	Performance evaluation of drone sprayer to control pest and disease in paddy	Dr. Goudra Pramod Gouda	Accepted
7	Value addition of Karonda and Garcinia gummigutta fruits	Dr. Goudra Pramod Gouda	Accepted
8	Design and development of automated in filtro meter	Dr. Goudra Pramod Gouda	Accepted
9	Development of sensor based evaporimeter for hilly regions	Dr. Mallika K	Accepted
10	Conjunctive use of runoff harvested water from plastic lined farm pond and groundwater for crop production.	Dr. Mallika K	Accepted
11	Development of Solar Powered Smart Irrigation System suitable for Small and Marginal farmers for Doubling the farmers Income in Hilly zone of Karnataka	Dr. Mallika K	Accepted
12	Impact Assessment of Custom Hiring Centre of zone 9 & 10	Dr. Nagaraja M.S	Accepted
13	Modeling and Forecasting of Leaf Twisting Disease of Onion based on weather and soil parameters	Dr. Nagaraja M.S	Accepted

Sl. No	Title of the Experiment	Name of the scientist	Remarks
14	Growth and Yield estimation of Pineapple in Shivamogga district of Karnataka through Mathematical modelling	Ms. Manjula R	Accepted
15	Contextualizing Marginality in the Context of Language, Education and Modernity: A Study on the Rural Migration	Ranisha R	Accepted
16	Automatic Identification of Western ghat Plants of Karnataka using Plant leaf images	Anantha Krishna K S	Accepted

Remarks:

- Dr. Shankar M., and Dr. Mallika are the university nodal scientists for designing and installation of Polyhouses, irrigation and sensors.
- Statistics models should be established
- Big data analysis should be done
- Forecasting modules should be developed
- Conversion of Agriculture , Horticulture and Forestry English textbook to Kannada-English teacher
- RMS, AMS and biometric analysis should be done

#### Entomology and animal sciences, fisheries

Sl. No	Title of the Experiment	Name of the scientist	Remarks
1	Evaluation of entomopathogens against Coffee berry borer	Dr. Hanumantharaya, L	Accepted
2	Tritrophic interactions studies in the management of chilli insects and mites pests	Dr. Hanumantharaya, L	Accepted
3	Studies on Aphids infesting vegetable crops in Karnataka	Dr. Suchithra Kumari, M. H.	Accepted
4	Effect of climate change on the activity of scarabs in vegetable agro-ecosystems	Dr. Suchithra Kumari, M. H.	Accepted
5	Assessment of cost of production and physico-chemical properties of honey from Karnataka	Dr. Kencharaddi R N	Accepted
6	Survey on incidence of arecanut spindle bug, <i>Volkeliopsis arecae</i> (Miller & China) and evaluation of different insecticides for its management.	Dr. Anjan Kumar Naik	Accepted



Sl. No	Title of the Experiment	Name of the scientist	Remarks
7	Study on floral visitors of arecanut ( <i>Areca catechu</i> L.)	Dr. Anjan Kumar Naik	Accepted
8	Evaluate the effects of stocking densities on production performance of Red tilapia ( <i>Oreochromis</i> sp. ) in farm ponds under hapa rearing methods at hill zone of Karnataka	Mr AV Swamy	Accepted
9	Evaluate the effects of fish feeds on production performance of striped snake head ( <i>Channa striata</i> ) fish at hill zone of Karnataka	Mr AV Swamy	Accepted
10	Establishment of Black Soldier Fly (BSF) demonstration unit	Dr. Revanna Revannavar	Accepted
11	Evaluation ant attractants for coffee stem borer management	Dr. Revanna Revannavar	Accepted
12	Evaluation of entomopathogens against earhead bug, <i>Leptocorisasp.</i> in paddy ecosystem	Dr. Revanna Revannavar	Accepted
13	Evaluation of insecticides for the management of cashew apple and nut borer <i>Thylocoptilapanroseameyrick.</i>	Nishmitha, K.	Accepted

Sl. No.	Scientist	Assigned area of Research
1	Dr. Sadananda Acharya B.	Disease diagnosis and health management Shrimp production and culture Ornamental fish culture
2	Dr. A.V. Swamy	Inland fisheries
3.	Dr. Shrinivas H. Hulikoti	Bio floc technology , RAS, Breeding of fish

### Remarks

IPM Module for cashew to be developed

### Plant pathology

Sl. No	Title of the Experiment	Name of the scientist	Remarks
1	Spatial sampling of fruits and vegetables for analysis of pesticide residue and risk assessment	Dr. Pallavi, M. S	Rejected

Sl. No	Title of the Experiment	Name of the scientist	Remarks
2	Supervised field trials on Metalaxyl in ginger to generate the pre-harvest intervals (PHI) for fixing MRL	Dr. Pallavi, M. S	Rejected
3	Supervised field trial on persistence and dissipation of hexaconazole and Tebuconazole in cardamom to generate the pre-harvest intervals (PHI) for fixing MRL	Dr. Pallavi, M. S	Rejected
4	Comparative Assessment Of Yellow Leaf And Leaf Spot Disease Of Areca Nut In Malnad Regions	Dr. Sanjeev Jakatimath	Accepted
5	Areca Leaf Spot And Yellow Leaf Disease	Dr. Sanjeev Jakatimath	Accepted

#### Soil science and agricultural chemistry

Sl. No.	Scientist	Assigned area of Research
1	Dr. Sankalpa	INM in vegetables, poly house and shednet nutrition studies
2	Dr. Prashanth	Coffee nutrient Validation Micro and secondary nutrient studies
3	Dr. Saraswathi	Arecanut nutrition studies
4	Dr. S.M. Jayaprakash	Cashew nutrient Validation

Sl. No	Title of the Experiment	Name of the scientist	Remarks
1	Effect of nitrogen levels and nano-N fertilizers on growth and yield of paddy in coastal Karnataka	Dr. S.M. Jayaprakash	Accepted
2	Management of soil acidity and Ca-Mg nutrition in ridge gourd	Dr. S.M. Jayaprakash	Accepted
3	Management of soil acidity and Ca-Mg nutrition in cucumber (Sambar southe)	Dr. S.M. Jayaprakash	Accepted
4	Assessment of effluent treated water quality for gardening irrigation and its effect on soil properties	Dr. S.M. Jayaprakash	Accepted

Sl. No	Title of the Experiment	Name of the scientist	Remarks
5	Soil Nutrient Status in the leaf spot ( <i>Colletotrichum gloeosporioides</i> .) Affected Arecanut Gardens	Dr. Saraswathi	Accepted
6	Studies on influence of graded levels of potassium and boron application on arecanut ( <i>Areca catechu</i> L.) yield parameters	Dr. Saraswathi	Accepted
7	Effect of Foliar application major and micro nutrients on growth and yield of Robusta Coffee ( <i>Coffea canephora</i> )	Dr. Sankalpa, C. P	Accepted
8	Digital Soil Mapping Using Machine Learning approach for sustainable agriculture in Southern transition zone of Karnataka	Dr. Ravikumar D	Accepted
9	Effect of zinc and boron application on growth and yield of Onion	Dr. Prashanth	Accepted
10	Soil carbon studies in plantation-based ecosystems in the costal zone of Karnataka		Accepted

#### Genetics and plant breeding , crop physiology and bio technology

Sl. No.	Scientist	Assigned area of Research
1	Dr.Subashini	Germplasm collection and conservation of Cardamom
2	Dr.Sridevi	Coastal paddy Double haploids in paddy
3.	Dr. Arathi Yadawada	Cashew Okara
4	Dr.Harsitha	Cucumber
5.	Dr.Ganapathi	Drought studies research

Sl. No	Title of the Experiment	Name of the scientist	Remarks
1	Screening the potential of Rice germplasm for internode elongation under deep water condition	Dr. G. Subashini	Accepted
2	Development of high yielding variety for zone 9 of Karnataka	Dr. G. Subashini	Accepted

Sl. No	Title of the Experiment	Name of the scientist	Remarks
3	Screening of red rice ( <i>Oryza sativa</i> L.) genotypes for salinity tolerance of Coastal Karnataka	Dr. Shridevi A. Jakkeral	Accepted
4	Molecular Characterization of Red Rice Germplasm ( <i>Oryza Sativa</i> L.) of Coastal Karnataka	Dr. Shridevi A. Jakkeral	Accepted
5	Evaluation of suitable high yielding groundnut ( <i>Arachis hypogaeae</i> L.) varieties for rabi/summer of zone 10	Dr. Shridevi A. Jakkeral	Accepted
6	Evaluation of Cashew varieties and identification of promising genotypes for hybridization	Dr. Arati Yadawad	Accepted
7	Germplasm collection, characterization and evaluation of turmeric genotypes	Dr. Arati Yadawad	Accepted
8	Collection and evaluation of okra varieties for YVMV resistance and transfer of resistance into Halu Bhindi	Dr. Arati Yadawad	Accepted
9	Collection and evaluation of okra varieties for YVMV resistance and transfer of resistance into Halu Bhindi	Dr. Arati Yadawad	Accepted
10	Morphological characterization of Melon ( <i>Cucumis melo</i> L.) genotype	Mrs. Harshitha C. K.	Accepted
11	In Vitro Propagation of Bamboo Species ( <i>Bambusatulda</i> and <i>Dendrocalamus</i> as per) through nodal culture	Dr. Ningaraj Dalawai	Accepted
12	Effect of pre sowing seed treatment on germination of areca nut	Dr. Pramila, C. K	Rejected
13	SEED collection, storage and seed quality studies in wild edible fruits in kodagu district	Dr. Priya Kivadasannavar	Accepted
14	Influence of biostimulants and PGR,s on sucker production in cardamom ( <i>Elettaria cardamomum</i> )	Dr.Ganapathi M	Accepted
15	Influence of biostimulants on growth and yield of ginger ( <i>zingiber officinale</i> linn.)	Dr.Ganapathi M	Accepted
16	To study the effect of elicitors against the leaf spot of arecanut ( <i>Areca catechu</i> L.)"	Mrs. Namratha, M R	Accepted

## Agronomy

Sl. No	Title of the Experiment	Name of the scientist	Remarks
1	Assessing the Pre-emergent herbicide (Pendimethalin 38.7%CS) spray fluid requirement for aerial spraying using agriculture drone in rice crop	Dr. N.E.Naveen	Accepted
2	Evaluating the Performance of Spraying Equipment Types Using Nano Urea Liquid for Rice Productivity	Dr. N.E.Naveen	Accepted
3	Herbicide options for management of <i>Wedeliasps</i> and <i>other weed species</i> in plantation garden (Areca) of Malnad and Coastal Karnataka	Dr. N.E.Naveen	Accepted
4	Effect of planting geometry and nutrient levels on growth and yield of banana.	Dr. Basavalingaiah	Accepted
5	Crop weatherrelationships inArecanut	Dr. SharanappaKuri	Accepted
6	StandardizationofwaterrequirementthroughdripirrigationinArecanut for pre-bearing	Dr. Sharanappa Kuri	Accepted
7	Effect of integrated nutrient management practices ongrowth and yieldofArecanut	Dr. SharanappaKuri	Accepted
8	Effect of Spent Mushroom Substrate on growth of <i>Canarium strictum</i>	Mr.GorappanavaraBharamappa	Accepted
9	Isolation and characterization of Plant Growth Promoting Rhizomicroorganasims (PGPR) from different forest eco system for Sustainable Agriculture	Mr.GorappanavaraBharamappa	Accepted
10	Field evaluation of weed management practices	Dr.Ullasa M Y	Accepted
11	Influence of potassium humate on growth, yield and economics of medicinal coleus ( <i>Coleus forskohlii</i> ) under Mudigere condition	Dr. Yamuna, B. G.	Accepted

**General Remarks:**

1. All Projects should be submitted in the form of Detailed Project Report having Good Title, rationale, exorbitant review of literature methodology and expected outcome, budget by April 10<sup>th</sup> with inline with the area/crop given and suggestions.
2. IFS related projects should be sent to Directorate of secondary agriculture for funding.
3. Projects should be sent through proper channel head of the division and ADR.
4. Physical education, Library, Computer science, Kannada, English should also submit the projects
5. Each scientist should handle revolving fund
6. Computer science teacher should develop research and extension management software, AMS software and biometric analysis.