

Concept Notes selected for PowerPoint presentations under the theme “Need-based technology for stakeholders”

Subject_ Agriculture Concept Notes 32

Sl No	Name	Establishment	Discipline	Title
1.	Dr. Ananta M. Baruah	CA/AAU	BAC	Optimization of Postharvest Processing and Packaging of Joha rice for Commerce & Trade
2.	Dr. Anurag Kashyap	CA/AAU	Plant Pathology	Development of bacterial nanocellulose film from agro-wastes for application as green antimicrobial food packaging material
3.	Dr. Bhabesh Gogoi	CA/AAU	Soil Science	Reclamation of the contaminated agricultural lands due to coal mining activities in Assam
4.	Dr. Bharat Ch Nath	CA/AAU	Plant Pathology	Management of bacterial wilt- nematode complex in natural farming system and eco-friendly protected cultivation
5.	Dr. Gunadhya Kr. Upamanya	SCSCA/AAU	Plant Pathology	Ex-situ Mycoremediation of Heavy Metal Contaminated Soil in Dumping Sites of Municipality Solid Waste
6.	Dr. Hiranya Kr. Dev Nath	CA/AAU	Plant Pathology	Utilization of agricultural waste in button mushroom cultivation and popularization of its production technology for livelihood security
7.	Dr. Kasturi Choudhury	CA/AAU	Entomology	GPS and GIS based mapping on threatened Muga endemic areas and identify the facts of declining Muga production.
8.	Dr. Khanin Pathak	CA/AAU	BAC	Bioprospecting pomelo waste: development of pomelo peel powder and biopesticide
9.	Dr. Kritideepan Sarmah	CA/AAU	BAC	Development of biodegradable films prepared from various starch sources for food packaging and agricultural uses
10.	Dr. Manashi D. Purkayastha	CA/AAU	Horticulture (FST)	Bitterness-oriented germplasm screening and preservation of Assam lemon (<i>Citrus limon</i> Burm.) juice
11.	Dr. Manha Bathari	RARS/Diphu	Entomology	Promotion, Prevention and preparedness of region specific feasible management strategies of Fall Army worm, <i>Spodoptera frugiperda</i>
12.	Dr. Manoj Kr. Sarma	BNCA/AAU	PBG	Genetic improvement of pigeon pea for yield and adoption under rai-fed cropping system of Assam
13.	Dr. Mercydi Maibangsa	RARS/Diphu	Agril Econ	Value Chain Analysis of Horticultural Crops in the Hill Zone of Assam
14.	Dr. Milon J. Konwar	RARS/Titabor	Agronomy	Crop Diversification and Precision Farming in Upper Brahmaputra Valley Zone of Assam for Managing Climate Change Vulnerabilities
15.	Dr. Mrinal Choudhury	SCSCA/AAU	Soil Science	Development of a IoT-based Soil Health Management System

16.	Dr. Nripen Kr. Gogoi	RARS/North Lakhimpur	Plant Pathology	Production of value-added compost from lignocellulosic agro-wastes through the application of actinobacterial consortia
17.	Dr. Pankaj Baruah	CA/AAU	Agril Engg	AI based Robotic Seed Drill for Small and Hilly Farms of North East India
18.	Dr. Parveen Khan	RARS/Karimganj	Plant Pathology	Utilizing the untapped potential of Vermicompost Tea Technology for organic management of plant diseases"- A Farmers user-friendly approach.
19.	Dr. Prakash Kalita	CA/AAU	Crop Physiology	Increasing productivity of black gram under transient waterlogged situation in acid soils of assam through physiologically efficient genotypes and applied chemicals
20.	Dr. Pranjit Sutradhar	CA/AAU	Agronomy	Development of climate resilient millet based cropping system
21.	Dr. Priyanka Das	CA/AAU	BAC	Functional food for human consumption from rice bran
22.	Dr. Ranima Mishra	BNCA/AAU	Plant Pathology	Establishment of disease free seed nursery through early indexing of virus for sustainable production of Bhut Jolokia (<i>Capsicum chinense</i> Jaqc.)
23.	Dr. Ranjan Das	CA/AAU	Crop Physiology	Carbon Farming through Sustainable Agricultural Land Management Practices: with reference to Argo-Ecosystems of AAU
24.	Dr. Sangita Das	CA/AAU	Crop Physiology	Development of morpho-physiological and genetic markers for breeding of cold-tolerant boro rice
25.	Dr. Sharmila Dutta Deka	CA/AAU	PBG	Differential expression of gene for grain aroma at post harvest stages and identification of ideal condition for aroma retention for Assam aromatic rice
26.	Dr. Surajit Kalita	CA/AAU	Entomology	Green-synthesis and utilization of nanoparticles extracted from black pepper (<i>Piper nigrum</i>) for the management of pulse beetle (<i>Callosobruchus chienensis</i> L.)
27.	Dr. Tankeswar Nath	CA/AAU	ABT	Studies on development of a bioaugmentation-biostimulation based technology for safe agriculture practice of rice/vegetable in arsenic-tainted areas of the Assam
28.	Mr. Diganta Kumar Bora	CA/AAU	Tea Husbandry	Spinning type water remover in green tea manufacturing
29.	Ms. Bibha Ojah	RARS/NL	Soil Science	Development and Utilization of Bioresources for Generating Livelihood Security and Entrepreneurship
30.	Ms. Borsha Neog	CA/AAU	Agril Stat	Development of AI based framework for estimating rapeseed & mustard yield
31.	Ms. Manjurima Gogoi	RARS/Diphu	Soil Science	Impact of nutrient management through organic matter recycling on yield and soil fertility status of arecanut based cropping system in hill region of Assam
32.	Ms. Simona Tamuly	BNCA/AAU	English	Empowering women through involvement in solid waste management to combat the problem of solid waste

Subject_ Veterinary Concept Notes 13

Sl No	Name	Establishment	Discipline	Title
33.	Dr. Bendangla Changkija,	CVSc/AAU	CMEJ	Development of herbal anthelmintic product against haemonchosis in goat.
34.	Dr. Deepa Lahkar	CVSc/AAU	Epidemiology	Development of a polyherbal formulation for control of tick infestation in goats
35.	Dr. Dipak Kr. Sarmah	CVSc/AAU	ARGO	A novel composition of enriched banana silage as non-conventional feed for cattle
36.	Dr. Farzin Akhtar	GRS/AAU	AGB	Establishment of repository herd of indigenous non-descript goat (Brown and Black) of Assam for contributing endurance and higher productivity
37.	Dr. Jakir Hussain	CVSc/AAU	LPM	Effect of packaging on the self-life and nutritional quality of complete feed block (cfb) for feeding of livestock in high humid region
38.	Dr. Kuleswan Pame	LCVSc/AAU	LPT	Iron enrichment and phyto-preservation of traditional pork products of Mising tribe of Assam and its technology up-scaling for commercialisation
39.	Dr. Luit Moni Barkalita	CVSc/AAU	ABT	Development of a marketable Probiotic Consortium for Poultry
40.	Dr. Lukumoni Buragohain	CVSc/AAU	ABT	Development of a cost effective peptide-based indirect ELISA for sero-monitoring of African swine fever
41.	Dr. Manjyoti Bhuyan	CVSc/AAU	ARGO	Development of a rapid diagnostic kit for early detection of bovine uterine infection in field condition
42.	Dr. Manna Baruti	CVSc/AAU	ARGO	Development of a Portable Neonatal Intensive Care Unit for Newborn Puppies
43.	Dr. Pranjal Borah	GRS/AAU	ARGO	Artificial intelligence based bracing of entire value chain of goat production system
44.	Dr. Shantanu Tamuly	CVSc/AAU	Biochemistry	Development of cost-effective oral vaccine against necrotic enteritis
45.	Dr. Sophia Gogoi	CVSc/AAU	Microbiology	Development of indigenous point-of care diagnostics for <i>Peste des Petits Ruminants</i> (PPR)

Subject_ Community Science Concept Notes 4

46.	Dr. Luna Dutta Baruah	CCSc/AAU	FSN	Determination of microplastics in food products and its implication on human health
47.	Dr. Mamoni Das	CCSc/AAU	FSN	Value addition of Grand Nane (G9) Banana: For entrepreneurship development
48.	Dr. Rupjyoti Bhattacharjee	CCSc/AAU	HDFS	Resilience –an approach of life skill for quality life.
49.	Dr. Tulika Borah	CCSc/AAU	HDFS	Mobile application for identification of ‘Red flags’ in child development

Subject_ Fishery Concept Note 1

50.	Mr. Sangipran Baishya	CF/AAU	Aquaculture	Refinement and commercialization of Induce breeding, larval rearing and grow out technology of <i>Sperata seenghala</i>
-----	-----------------------	--------	-------------	---