



Republic of the Philippines
ILOCOS SUR POLYTECHNIC STATE COLLEGE
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OFFICE OF THE VICE PRESIDENT FOR RESEARCH, EXTENSION & TRAINING

ENHANCED ISPSC RDE AGENDA (2012-2015)

Sector/Commodity	ORDER OF PRIORITIZATION			
	1 st	2 nd	3 rd	Last
A. Agriculture <i>Crops</i>	<ul style="list-style-type: none"> ▪ Organic pesticide pest control and management ▪ Organic vegetable (<i>pinakbet</i>) ▪ Organic rice seed production ▪ Crop diversity, crop rotation, inter-cropping and planting calendar strategies ▪ Farming systems ▪ Corporate agriculture ▪ Land use and agricultural land conversion ▪ Agricultural colonialism, sustainable agriculture and small land holding ▪ Value-adding and marketing of crops 	<ul style="list-style-type: none"> ▪ Selection and screening of heat- or drought-resistant crops/legumes 	<ul style="list-style-type: none"> ▪ Urban vegetable gardening 	<ul style="list-style-type: none"> ▪ Brown rice

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<i>Livestock</i>	<ul style="list-style-type: none"> ▪ Animal waste management 	<ul style="list-style-type: none"> ▪ Improvement of native pig & chicken (<i>focus on selection as well as improvement in the production processes</i>) 	<ul style="list-style-type: none"> ▪ Postharvest, product development & value-adding 	
<i>Soil & Water Resources</i>	<ul style="list-style-type: none"> ▪ Soil rejuvenation (<i>Bhoochetana approach</i>) ▪ Rainwater harvesting ▪ Groundwater resource development & management ▪ Assessment of water pollution ▪ Groundwater pollution and characterization of leachate from dumpsites 	<ul style="list-style-type: none"> ▪ Soil erosion control & soil fertility management 		
<i>Farm Mechanization & Renewable Energy</i>	<ul style="list-style-type: none"> ▪ Utilization of renewable energy 	<ul style="list-style-type: none"> ▪ Development of farm tools & equipment 		

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B. Fisheries	<ul style="list-style-type: none"> ▪ Organic aqua feeds ▪ Profiling of coastal / riverine resources ▪ Lifestyle assessment of coastal folks ▪ Carrying capacity models for different uses of coastal and marine ecosystems ▪ Assessment of the effectiveness, conflicts, gaps and status of implementation of all coastal and marine related policies, plans and programs ▪ Saltwater intrusion ▪ Sea level rise vulnerability assessment, impact, economy, number of affected population, and geo-hazard mapping including changes in tidal patterns ▪ Assessment of different fishing gears ▪ New species for deep sea aquaculture ▪ Toxicity and pH-variability in coastal waters ▪ Mariculture zones 	<ul style="list-style-type: none"> ▪ Conservation, characterization and improvement of indigenous fish species and other marine resources 	<ul style="list-style-type: none"> ▪ Technology, product development & value-adding 	<ul style="list-style-type: none"> ▪ Hatchery production, cage and pond culture & sea ranching ▪ Breeding in captivity and nursing of fry

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C. Education	<ul style="list-style-type: none"> ▪ Graduate tracer ▪ Education technologies in ICT, science and mathematics, education and teacher training, agriculture, humanities, and social sciences ▪ Program/curricular improvement ▪ Dimensions of policy formulation, implementation, monitoring and evaluation focusing on financing and cost sharing of higher education ▪ Economics of higher education ▪ Governance and management of higher education ▪ Accreditation and other quality assurance mechanisms ▪ Rationalization of higher education, access and equity measures, and student financing models ▪ Institutional development ▪ Competency level of graduates ▪ Adequacy of HEI facilities to meet the requirements of BPOs 	<ul style="list-style-type: none"> ▪ Job-skills matching 	<ul style="list-style-type: none"> ▪ Manpower supply and demand analysis 	<ul style="list-style-type: none"> ▪ Informal and non-formal modes of education

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D. Information & Communication Technology (ICT)	<ul style="list-style-type: none"> ▪ Survey on ICT for establishments and households using ICT including mobile phones in the region ▪ Data storage, sharing schemes of data generators and input to knowledge management project 	<ul style="list-style-type: none"> ▪ Software development for paperless automated operations 	<ul style="list-style-type: none"> ▪ Development of ICT-mediated IEC materials both for instruction and extension purposes 	
E. Hospitality Management	<ul style="list-style-type: none"> ▪ Manpower supply and demand analysis 	<ul style="list-style-type: none"> ▪ Job-skills matching 		
F. Industrial Technology	<ul style="list-style-type: none"> ▪ Development and fabrication of industrial tools & equipment 	<ul style="list-style-type: none"> ▪ Instrumentation 		
G. Business Administration	<ul style="list-style-type: none"> ▪ Community-based micro-enterprises (CBMS) ▪ Manpower demand and supply ▪ Supply chain analysis 	<ul style="list-style-type: none"> ▪ Market information system 	<ul style="list-style-type: none"> ▪ Database on family income & expenditures 	<ul style="list-style-type: none"> ▪ Feasibility studies ▪ Microfinancing

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H. Environment & Natural Sciences	<ul style="list-style-type: none"> ▪ Solid waste management ▪ Environment and natural resources ecological profiling and accounting ▪ Clean and energy efficient technologies ▪ Science-based information on the environment through knowledge management system ▪ Climate change mapping of vulnerable areas, adaptation, mitigation, coping mechanism, and effects to people's life and work ▪ Licensing and revocation of permits on activities against the environment ▪ Salt- and heat-tolerant and drought-resistant species ▪ Forest species phenology, behavioral adaptation and overall survival ▪ Plant and animal behavior and adaptation to temperature increase and precipitation abnormalities 	<ul style="list-style-type: none"> ▪ Biodiversity & ecosystem 	<ul style="list-style-type: none"> ▪ Scenario building on climate change 	<ul style="list-style-type: none"> ▪ Pollution control

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I. Social Science & Other Disciplines	<ul style="list-style-type: none"> ▪ Agribusiness issues and concerns for policy actions ▪ Effects of rapid population growth to people's lifestyle ▪ Survey on the lifestyle of people residing in marginal lands ▪ Generation of gender disaggregated data ▪ Compliance level of LGUs and agencies to the Citizen's Charter ▪ Traditional and alternative medicine ▪ Review of local ordinances on land use ▪ Assessment of FITS program, utilization level and impact ▪ Evaluation of loan extension of GFIs to SMEs and small entrepreneurs/farmers ▪ Efficiency and effectiveness of programs and projects on agriculture as basis for policy formulation 	<ul style="list-style-type: none"> ▪ Biophysical, socio-economic, cultural and demographic characterization of vulnerable groups and communities 	<ul style="list-style-type: none"> ▪ Extension delivery models ▪ Training needs analysis 	<ul style="list-style-type: none"> ▪ Impact assessment of programs & projects with policy implications to ISPSC operations

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J. Statistics	<ul style="list-style-type: none"> ▪ Meta-analysis ▪ Modeling ▪ Biometrics 			

Notes: 1st priority is an output of the Executive Development Program for SUCs (EDPS - Research) and approved by the BOT (no. yet to be determined) during its regular meeting on 10 December 2013 in CHED CO.

Succeeding priorities are those that were previously approved through BOT Res. No. 589, s. 2012.

Prepared by:

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