

University of Southern Mindanao

Proposed Research, Development and Extension (RDE) Agenda (2020-2023)

	RDE Themes	RDE Priority Areas
1	Quality Learning, Skills Development, and Literacy	Innovative teaching strategies; development and evaluation of functional education materials and modality; development of strategies/approaches for increased learning interest, motivation and engagement; school management; knowledge management; special education; remedial education; alternative learning system; assessment; soft skills; practical skills; adult education; language literacy; numerical literacy; data literacy; computer literacy; international studies; tracer studies
2	Social Development, and Strong Institutions	Gender and development (GAD); peace initiatives; community development; human security; justice; public policy and legislations; social rehabilitation; governance; organizational studies; behavioral studies; social institutions; ethics and public accountability; programs/project assessment; community needs assessment and interventions; partnerships and linkages
3	Preservation of Culture	Multicultural studies; educational materials for IPs; indigenous knowledge systems and practices; development of materials for cultural knowledge and promotion; arts; language and literature studies
4	Environmental Protection, Conservation, and Risk Reduction	Environment rehabilitation studies; biodiversity; climate change adaptation; risk, hazard and mitigation; biosafety; natural resources conservation and management; bioremediation; flood control; waste management; ecological preservation and care; environmental impact assessment
5	Food Security and Poverty Reduction	Agricultural and fisheries research; biotechnology; innovations; quality food product development; technology development; halal food production; sustainable production; responsible consumption; organic agriculture; food testing; smart agriculture; precision farming; livelihood programs; subsidy impact assessment; capacity building; capability building; farm machineries; post-harvest facilities; vertical farming; indigenous food

6	Good Health and Well-being	Nutrition; sports; physical education; resilience; psycho-social health; medical and medicinal studies; sanitation; functional foods; food and water quality and safety; mental and emotional health; therapy; coping mechanism; preventive measures; emerging diseases; health management; alternative medicine
7	Innovations in Science, Engineering, and Technology	Innovations; product and technology development; energy; materials science; nanotechnologies; robotics; artificial intelligence; internet of things; Science, Engineering, Communication, and Technologies (SECT) 4.0; biotechnology and OMIC technologies; inventions and discoveries; basic research; information technologies; electronics; drug discovery; mathematics; emerging technologies; fabrication; transport system; waste management; infrastructure; water systems; simulation studies; industrial and allied technology
8	Sustainable Entrepreneurship and Management	Entrepreneurship; economics; micro and macro scale business; product development; marketing; commercialization; networking; franchising; financial management; business feasibility studies; risk and opportunities; value adding; value chain analysis; organizational management; quality service assessment; human resource management; production management

UNIVERSITY OF SOUTHERN MINDANAO

RESEARCH, DEVELOPMENT AND EXTENSION 10-YEAR DEVELOPMENT PLAN

	2020	2021	2022	2023	Strategic Foresight
I. RDE engagement					
A. Local Funded Research					Significant increase in faculty and researchers RDE engagement; significant increase in quantity and quality of research; widened research engagement; development of advanced technologies; increase in number of research facilities; one of the top research universities in ASEAN region
B. Externally Funded Research					
C. Internationally funded research					
D. Research centers and laboratories					
E. National and international University Research Engagement					
II. Research outputs (publications, products, technologies, policies, systems)					
A. Products					Significant increase in number of products, technologies, publications, citations, IEC materials, policies and systems generated from research
B. Technologies					
C. Publications					
D. Citations					
E. IEC Materials					
F. Policies					
G. Systems					

III. Intellectual Property Assets					
A. Patents and Patent applications					Significant increase in number of intellectual property such as patents and patent applications, utility models, copyrights, industrial designs, and trademarks
B. Utility models					
C. Copyrights					
D. Industrial designs					
E. Trademarks					
IV. Adoption and commercialization					
A. Adopters					Significant increase in number of adopters of research outputs; increase in number of licensed and commercialized products and revenues
B. Licensing					
C. Commercialization					
D. Revenue Generation					
V. Academe-industry partnership					
A. University Business Engagement					Enhanced University-based business engagement; and strengthened academe-industry partnership and engagement
B. Industry Engagement					

VII RESEARCH AGENDA

REVISED USM RESEARCH, DEVELOPMENT AND EXTENSION AGENDA FOR 2015-2020

Prepared by: Dr. Cayetano C. Pomares, Vice President for RDE

AS PER APPROVED BY THE USM BOARD OF REGENTS THROUGH BOR RESOLUTION NO. 79, SERIES OF 2015

CHED MANDATE FOR RDE (as read)

- ☐ Pursuant to CHED Republic Act 7722, the national government's commitment to transformational leadership puts education as the central strategy for investing in the Filipino people, reducing poverty, and building national competitiveness shall:
- ☐ **Sec a.** Promote relevant and quality higher education (i.e. higher education institutions and programs are at par with international standards and graduates and professionals are highly competent and recognized in the international arena);
- ☐ **Sec c.** guarantee and protect academic freedom for continuing intellectual growth, **advancement of learning and research**, development of responsible and effective leadership, education of high level professionals, and **enrichment of historical and cultural heritages**;
- ☐ Specifically, CHED aims to achieve that the overall societal goal is the attainment of **inclusive growth and sustainable development** while the higher education sub-sector goals are: the formation of high-level human resource, and generation, adaptation, and transfer of knowledge and technology for national development and global competitiveness.

As indicated in Section 5. PROGRAMS, ACTIVITIES, AND PROJECTS and Article 5.1.1 Aligning HEI programs with national development goals the relevant and Responsive Research, Development and Extension (RDE), CHED supports the conduct of RDE aimed at generating, adapting and transferring or applying new knowledge and technologies for improving productivity and livelihood, promoting peace, empowering women, protecting the environment, reducing disaster devastation, and alleviating poverty.

USM RESEARCH DEVELOPMENT AND EXTENSION AGENDA 2015-2020

THEMATIC AREA	UNIT CONCERNED
1. Access to education and literacy	CED, CENCOM, IMEAS, CIT, CAS
2. Promotion of peace, gender equality and development	CBDEM, IMEAS, CED, CAS, CA
3. Preservation of arts, culture, language and literature	CAS, IMEAS, CIT
4. Environmental protection & conservation	CAS, CENCOM, CBDEM, CA, CIT, GS
5. Food security and poverty alleviation	All Colleges, USMARC, PICRI
6. Health and proper nutrition	CHEFS, CHS, ISPEAR, CAS, CVM, CA, CBDEM
7. Engineering and Technology	CENCOM, KCC-CIT, DIT
8. Halal	IMEAS

Focus Commodities in Agriculture (corn, cacao, banana, rubber, oil palm, and goat)