

# Research Agenda

## TECHNOLOGY CLUSTER

The research agenda serves as a guidepost and template for research and development activities of different offices and colleges.

The overall purpose of the research agenda is to unify efforts of the different departments in the integration of instruction, research and extension, to conduct researches anchored on institutional, local, regional and national needs and priorities, to realize the university's core competencies through the conduct of research, and to establish the link between instruction and extension through the conduct of research.

### Specific Objectives of the Research Agenda

1. To provide focus and direction on research and development activities that address various issues and concerns of the institution and its stakeholders;
2. To provide research-based solutions that address pressing national and local problems;
3. To serve as basis for funding research projects and for collaboration between and among colleges and departments of the university and other institutions and funding agencies;
4. To guide academic work of writing thesis and dissertation and minimize duplication of researches; and
5. To guide resource utilization in the University.

### Bachelor of Science in Civil Engineering

- Advancement in construction material technology and durability
- Construction safety measures and project management
- Land-use planning
- Model building studies

### Bachelor of Science in Electronic and Communication Engineering

- Technology and education
- Energy efficiency systems
- Traffic/mobility
- Bioinformatics
- Identification and characterization of alternative sources for energy
- Disaster risk management
- Ecological design

### Bachelor of Science in Architecture

- Model building studies
- Architectural and urban design
- Architectural tourism
- Land use planning
- Disaster risk reduction
- Climate change adaptation
- Disaster risk management
- Ecological design

### INSTITUTIONAL RESEARCH AGENDA

1. Studies on assessment of programs/curricula
2. Studies on educational quality and standards,
3. Studies on technology and education
4. Graduate tracer studies
5. Policy-oriented studies
6. Human resources demand and supply studies

### Bachelor of Science in Computer Engineering

- Technology and education
- Technologies for industry competitiveness
- Disaster risk management

### Bachelor of Science in Information Technology

- Development of a mobile application for body mass index (BMI) computing with health tip generation
- Web-based and Mobile-based warning and information system
- Research Repository Management System in Mobile Approach

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