

CAMPUS WIDE

# DISASTER SIMULATION



# Background and Rationale

The Philippines is highly vulnerable to natural and human-made disasters due to its geographic location and environmental conditions. Universities, as densely populated institutions, face significant risks during emergencies such as earthquakes and fires, making disaster preparedness a critical priority. To address this need, the Bachelor of Science in Nursing (BSN) Level IV students of Negros Oriental State University conducted a Campus-Wide Disaster Simulation focusing on an earthquake followed by a fire incident.

The simulation provided a realistic, hands-on learning experience that allowed nursing students to apply theoretical knowledge in disaster nursing, emergency care, triage, leadership, and coordination. It also promoted interdisciplinary collaboration among students, university offices, and external emergency response agencies. Beyond skill development, the activity served as an opportunity to assess the university's emergency preparedness plans, evacuation procedures, and response systems.

Overall, the disaster simulation strengthened disaster awareness, enhanced emergency response competencies, and fostered a culture of safety and preparedness within the university, reinforcing the vital role of nursing education in disaster risk reduction and community resilience.



The **Disaster Nursing Simulation Program**, launched on June 3, 2025 by the College of Nursing's Disaster Preparedness and Response Unit, is designed to equip nursing students with the skills and confidence needed to respond effectively to disaster situations such as earthquakes, floods, fires, and mass casualty incidents. The program integrates theoretical knowledge with hands-on simulation to enhance critical thinking, teamwork, and clinical decision-making in emergency settings.

The program begins with classroom lectures on disaster management principles, triage systems, and emergency care protocols. This is followed by realistic simulation activities where students manage simulated injuries, utilize emergency equipment, and coordinate with health teams. Faculty members and trained simulation staff observe student performance and conduct structured debriefing sessions afterward, allowing students to reflect on their actions, recognize strengths and weaknesses, and receive constructive feedback.



# Project Objectives

## General Objective

To enhance the disaster preparedness, response capability, and interdisciplinary coordination of nursing students and the university community through a realistic earthquake and fire disaster simulation, enabling participants to apply disaster nursing principles, emergency protocols, and collaborative response strategies in a controlled learning environment.

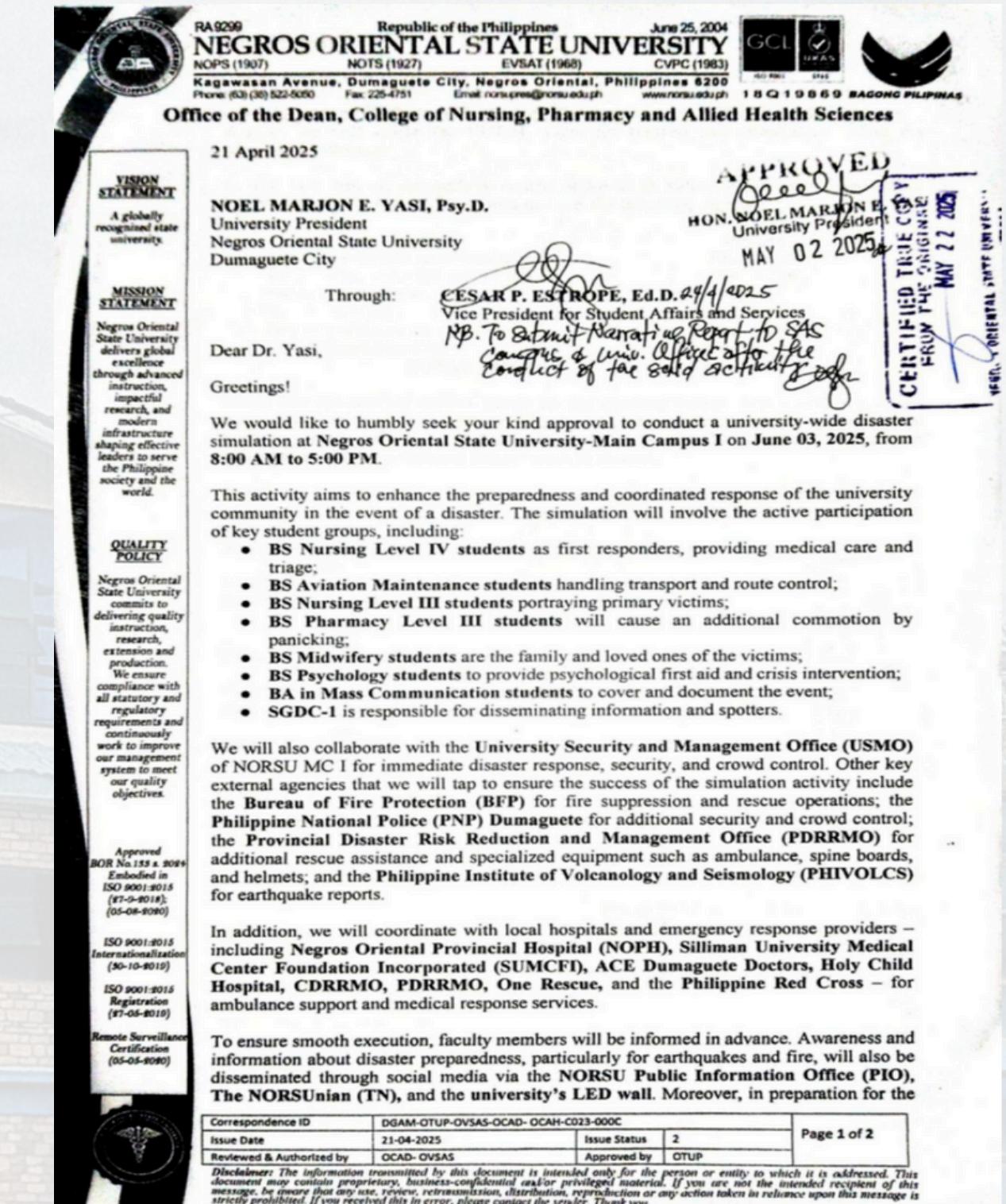
## Specific Objectives

- To educate students, faculty, and staff on appropriate actions before, during, and after earthquake and fire emergencies.
- To develop nursing students' competencies in triage, first aid, victim management, and emergency nursing interventions.
- To strengthen leadership, communication, and decision-making skills among nursing students during disaster scenarios.
- To promote effective interdisciplinary collaboration among different colleges, university offices, and external emergency response agencies.



# Project Approval and Institutional Endorsement

## Approving Body: Office of the University President



Nursing Department  
College of Nursing, Pharmacy, and Allied Health Sciences



# CAMPUS-WIDE DISASTER SIMULATION



The **Campus-Wide Disaster Simulation** served as a valuable hands-on learning experience, bringing students, faculty, and responders together to enhance preparedness for real-life emergencies. Through active participation and teamwork, participants were able to apply theoretical knowledge, practice critical decision-making, and develop essential skills in disaster response. This activity emphasized the importance of coordination, readiness, and resilience in ensuring safety and effective emergency management within the campus community.



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The **Campus-Wide Disaster Simulation** provided an immersive learning opportunity that strengthened participants' readiness to respond to emergencies. By engaging in realistic scenarios, students were able to practice life-saving skills, improve communication, and work collaboratively under pressure. The activity highlighted the importance of preparedness, teamwork, and swift decision-making in promoting safety and resilience within the campus community.



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**Michael Benz Dano**, the Incident Commander, delivers the pre-briefing to participants prior to the start of the Campus-Wide Disaster Simulation, outlining the objectives, safety protocols, and roles essential for the activity. This session ensured that everyone was properly oriented and prepared, setting a clear direction for effective coordination and meaningful participation throughout the simulation.



Implemented every semester as part of the community health nursing curriculum, the program collaborates with the Local Disaster Risk Reduction and Management Office (LDRRMO) to ensure alignment with real local emergency procedures. Compared to traditional lecture-based teaching, this simulation-based approach provides experiential learning that improves preparedness and professional competence. Despite challenges such as limited equipment, scheduling conflicts, and student anxiety, ongoing solutions and strong progress indicate that the program is on track for full completion by December 2025.



# CAMPUS-WIDE DISASTER SIMULATION



During the simulation, participants actively carried out emergency response procedures in a realistic campus setting. Equipped with proper protective gear and guided by established protocols, responders demonstrated teamwork, alertness, and effective coordination while managing simulated disaster situations.



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# CAMPUS-WIDE DISASTER SIMULATION



During the simulation, participants engaged in hands-on emergency response activities, applying disaster management skills in real-time scenarios. The exercise highlighted the importance of preparedness, swift action, and teamwork in ensuring effective response during emergency situations on campus.



# CAMPUS-WIDE DISASTER SIMULATION



During the simulation, responders provided focused and compassionate care to a simulated pregnant woman, prioritizing maternal and fetal safety. The activity allowed participants to practice appropriate assessment, stabilization, and referral while demonstrating teamwork, clinical judgment, and sensitivity in managing obstetric concerns during emergency situations.



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Team leaders successfully concluded the post-briefing session for the disaster simulation exercise. Through collaborative discussion and reflection, they analyzed the strengths and areas for improvement in a response strategies, decision-making, and coordination.



# CAMPUS-WIDE DISASTER SIMULATION



The **Bureau of Fire Protection (BFP)** provided valuable feedback after the disaster simulation post-briefing. Their insightful comments and recommendations for improvement highlighted key areas in emergency response, coordination, and safety protocols.



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Dr. Belcina, the consultant, shared her valuable insights and constructive feedback during the post-briefing of the disaster simulation. Her expert comments highlighted areas of strength and opportunities for improvement, guiding the team leaders toward enhanced coordination, decision-making, and overall preparedness. Her guidance serves as a vital step in strengthening our response strategies for future emergency situations.

