

R&D GAPS & POSSIBLE COLLABORATORS

HR DEVELOPMENT	EXISTING / CURRENT	S&T GAPS and CHALLENGES	COLLABORATORS
(PRIORITY 1) POLICIES	Flying/ operation requirements	<p>Certification guidelines for UAV – design, manufacturing, testing, operation (Licensing of operators and users)</p> <p>Policy for hobbyists in non-designated areas</p>	CAAP, academe, UAV operators/ service providers
(PRIORITY 2) UAV CURRICULUM	<p>Introductory Course in UAV/UAS (Components and Mechanics)</p> <p>Development of airframe, aircraft design as part of Aero Eng'g (Feati)</p> <p>Digital photogrammetry (UPD)</p>	<p>Composites</p> <p>Special program/track under ECE</p> <p>Microprocessor (UAS)</p> <p>Control system</p> <p>Fixed wing, telemetry, image/signal processing, remote sensing and GIS</p> <p>Science tours for HS</p>	AdMU, Feati, UP, DLSU, FIDA, MIRDC

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(PRIORITY 3) TRAINING / TRAINING COURSES	Provides trainings to PN (AdMU) Training courses by UPTCAGP	<ul style="list-style-type: none"> ▪ Inventory of existing expertise, needs ▪ Faculty development ▪ Training for design (platform and systems) , fabrication, operation, maintenance, system repair ▪ Certified Training Providers ▪ UAV kit development 	AdMU, Feati, UP, DLSU
(PRIORITY 4) TESTING / SIMULATION FACILITY	<ul style="list-style-type: none"> - Flight simulators - Design software for flow simulation/CFD - Finite Element Analysis (FEA) Center - ADMATEL, EPDC, Die&Mold Center 	<ul style="list-style-type: none"> ▪ Central UAV design and maintenance facility ▪ Wind tunnel – VTOL/STOL ▪ Inventory of existing facilities ▪ Industrial 3D printers/CNC Routers 	CAAP, PNRI, AFP, DOST LABS