

Brief Description of Projects (Additional List)

S.No.	Area	Project/ Work Package/ Activity Name/ Number	Brief Description of Projects
1.	SS	Nano-Biosensors and Microfluidics for Health Care: Label free, affordable and easy-to- use point of care system for detection of Dengue virus infections in patient sample. (HCP- 0012/ WP: 1.2 and 1.3)	In this project we will make a platform device for detecting various diseases starting with a case study of Dengue virus, three different approaches will be targeted based on the sensitivity and selectivity effectiveness we will grade our platform as first, second and third. The approaches are a. Dielectric based b. Fluorescence based c. SERS based
2.	SS	Nano-Biosensors and Microfluidics for Health Care: Gallium Nitride HEMTs based biosensor. (HCP- 0012/ WP: 1.6)	This work package aims to design & develop Gallium Nitride High electron mobility transistor based biosensor.
3.	SS	Development of UV-LEDs on to sapphire substrates under “Development of III-Nitride white and UV-LED technology for green energy and societal impact”. (GAP- 3233)	Design, fabrication and testing of AlGaIn-based UV-LEDs. Packaging of UV-LEDs and array of UV-LEDs for a target application of water purification.