

**7.2.1** Describe at least two institutional best practices Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link (2019-20).

### **BEST PRACTICE 1 - COVID-19 SUCCESS STORIES**

a) The Yogi Vamana University, Kadapa district, the NSS Coordinator, NSS POs and Volunteers are actively working in the lockdown period on various awareness programs and rendering services to the needy people of Kadapa district. Kadapa District Collector has appointed the NSS program Coordinator of Yogi Vemana University, Dr. A. Madhusudhana Reddy as Kadapa District Nodal Officer to deploy the NSS Volunteers to work on COVID19 service activities in the District. The NSS Coordinator released COVID 19 Awareness Posters on 6 March 2020 and has organized awareness programs to the PG, UG and Intermediate colleges' students of the Kadapa district in the class room itself with help of NSS POs and Experts. The NSS Program Coordinator has deployed 95 numbers of NSS POs and 385 NSS Volunteers to work on COVID 19 Service activities as on today. The Coordinator has attended 3 numbers of training online meetings and arranged 2 numbers of ZOOM meetings on COVID 19 to POs and Volunteers, one webinar organized. A total of 75 numbers of NSS POs Trained in the Kadapa Dist. The Coordinator, POs and Volunteers are rendering good services to Kadapa district people. Various services like Quarantine areas, markets places, helping police, serving poor, roadside assistance, daily labors, creating awareness in villages and creating awareness in social media on Corona virus, helping food distribution and food preparation, distributing essential commodities, Vegetables to back ward areas especially SC & ST colonies, awareness on social distances and also some women Volunteers are preparing face masks. The NSS volunteers are also serving in their adopted villages and so far, worth of more than Rs. 8.0 Lakhs service works done. The coordinator has conducted online awareness quiz on COVID 19 and the participants have received online certificates. So far 350 members have been participated. YVU NSS released a video song on COVID 19 awareness. The NSS Service programs on COVID 19 were very well appreciated by Kadapa District Authorities, NGO's and public.

#### **b) COVID-19 Awareness through Wall Paintings in Adopted Villages and Public Places by Soma Sekhar, NSS Volunteer, YVU**

Mr. Soma Sekhar has started COVID-19 awareness among the people by using his brush. He has adopted remote villages and places in Kadapa, Anantapur and Karnataka border

villages for COVID-19 awareness campaign and around he visited 100 villages and painted 250 wall paintings in 16 days. These wall paintings have showed a remarkable influence on villagers and created awareness on COVID-19 prevention.

#### **c) DISTRIBUTION OF ESSENTIAL COMMODITIES TO THE NEEDY PEOPLE**

Yogi Vemana University NSS cell Program Coordinator has organized distribution of essential commodities and Face Masks to the 95 temporary workers (Sulab, gardeners, security, watchmen's and daily wage labors) working in the University. The program inaugurated and essential commodities distributed by **Prof. M. Surya Kalavathi, Vice-Chancellor, Yogi Vemana University** at 11:00 am on 13-04-2020 in the Administration Block and she said that due to lockdown NSS cell has arranged 15 varieties of daily commodities to temporary employees. The NSS Program coordinator Dr A Madhusudhana Reddy, said that the total worth of Rs. 80,000 spend for this program and the program sponsored by YVU NSS cell. The Registrar of YVU, Prof D Vijaya Raghava Prasad has given awareness instructions on Corona virus and its problems to the all attendees. In this program Rector Prof M R K Reddy, and Principal Prof G Sambasiva Reddy, and Vice principal, NSS Pos, Volunteers and others staff attended. On 4<sup>th</sup> May 2020 around 500 numbers of combo vegetable packets were distributed to the Yellatur village near Y. V. University. The was sponsored by Sahasra Organization Reddy Sekhar Reddy, Yellatur and RMP Doctor Reddy Basha. Nearly 500 families benefited worth of Rs. 20, 900. YVU NSS PO Dr. N. Venkatarami Reddy, supervised the program. NSS Cell Yogi Vemana University and Manavatha NGO organized the programme, distribution of essential commodities to 200 municipal workers in Kadapa town on 29<sup>th</sup> April, 2020. The program inaugurated by Yogi Vemana University Vice Chancellor Prof M Surya Kalavathi and Registrar, YVU NSS cell Coordinator. The program was sponsored by M Sridhar Reddy, Ontimitta. Nearly 200 families benefited worth of Rs. 40,800. YVU NSS PO Dr. Neelaveni supervised the program.

#### **d) FOOD DISTRIBUTION**

On 29th April 2020, Government Junior College for Girls Kadapa, NSS Programme Officer Sri L.Chandrasekhar Reddy and NSS volunteers, prepared and supplied Egg Biryani for more than 50 Corporation workers at Kadapa town. During the lockdown period i.e., on 27<sup>th</sup> April 2020, Smt. Peddireddi Neelaveni, NSS Programme Officer,

Govt. Junior College for Girls Kadapa, has distributed 200 food packets to homeless, truck drivers, daily wagers and police, who were working hard in this crucial period with the cooperation of Manavatha Voluntary Organization.

## **BEST PRACTICE 2 – Utilization of solar energy for cleaner energy generation via photocatalytic hydrogen using H<sub>2</sub>S containing wastewater:**

Department of Materials Science and Nanotechnology is committed for design, development and functionalization of nano structured materials for energy, environment and healthcare applications. Researchers developed several highly efficient photocatalysts for enhanced rate of hydrogen production under solar light irradiation. The research team have multi-institutional collaboration to develop and tested the photocatalysts for enhanced hydrogen production. As part of technological up-gradation the developed Cu<sub>2</sub>S/TiO<sub>2</sub> core-shell photocatalysts tested for hydrogen production utilizing sulphide containing wastewater from domestic sewage treatment plant. The result showed developed core/shell material is highly stable under experimental conditions and un-interrupted hydrogen production compared to earlier reports. In order to achieve the above results, the researchers optimized reaction parameters for synthesis of photocatalysts and hydrogen generation as well. The outcome of the results is published in high impact factor journal *Applied Catalysis B: Environmental*. Major highlights of the research as follows:

- ❖ Adsorption mediated process exhibits high photocatalytic H<sub>2</sub> evolution.
- ❖ Cu<sub>2</sub>S@TiO<sub>2</sub> photocatalyst achieved 2.1 and 4.5 folds higher than pristine materials.
- ❖ Quantum efficiency of 48.6% at  $\lambda = 768.6$  nm achieved at optimized conditions.
- ❖ Reproducible H<sub>2</sub> generation recovered from sulphide containing wastewater.
- ❖ Surface-interface properties of photocatalyst triggered enhanced H<sub>2</sub> production.

