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Department of Mechanical Engineering

Report on Social Connect and Responsibility

NAME OF THE DEPARTMENT: Department of Mechanical Engineering

1. Type of Event : Social Connect and Responsibility- Visit to RajaRajeswari Medical

College and Hospital (RRMCH), Bengaluru

2. Resource Person : Dr. Sharma.D.C

Chief Civil Engineer

RajaRajeswari Medical College and Hospital (RRMCH), Bengaluru

4. Date of the programme: Friday, 6th January 2023

5. Faculty Co Ordinator: Dr.M. Karthikeyan,

Professor and Head

Department of Robotics and Automation RajaRajeswari College of Engineering

Dr. Ashwini.L.K, AP-Civil Assistant Professor

Department of Civil Engineering RajaRajeswari College of Engineering

- 6. Students attended: 3rd Semester of Mechanical Engineering
- 7. Outcome of the programme:

Students gained information about the following:

- 1. Various types of infrastructure are available at RRMCH to handle the waste.
- 2. Handling of various waste
- 3. Construction of the biogas plant and its operations
- 4. Bio gas digester
- 5. Handling of electronic goods, and plastic wastes.
- 6. Hazardous materials handling

The Report visit to RajaRajeswari Medical College and Hospital (RRMCH), Bengaluru on Friday, 06th January 2023 with respect to the subject 21SCR36 SOCIAL CONNECT & RESPONSIBILITIES.





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Event Photos



Students are reached the college after the visit to RRMCH.



Students are boarded the bus to RRMCH





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Event Photos





Dr Sharma D C briefed the various waste management facilities available in RRMCH to the students

Campus: #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074







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Dr Sharma D C briefed the how the food waste is used to produce biogas at RRMCH to the students

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Dr Sharma D C briefed the how the sewage water is treated and how it is used for gardening and other irrigation purposes at RRMCH to the students

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Sewage Treatment Plant facility at RRMCH

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Information collected during the visit at

RajaRajeswari Medical College and Hospital (RRMCH), Bengaluru

WASTE MANAGEMENT

- Sustainability is not only spoken at various levels but also practiced by industries, organizations, and educational institutes to optimize their resource utilization and make them environment friendly.
- RajaRajeswari Medical College and Hospital has a sprawling cricket ground which is at part with any cricket ground where national cricket matches are played.
- biodegradable waste from college and hostel canteen, paper waste to hazardous wastes of laboratories and worn-out electric & electronic goods, and plastic wastes. Hazardous materials represent significant risks to human health and ecological integrity. Hazardous wastes are also leached out through the e-waste generated on the campus.
- They have their own biogas plant where biogas is produced by using waste generated in kitchens, canteen, and hostels which are used to cook food so that a contribution to the cylinder can be minimized. The biogas plant receives the solid wastes from the canteen (leftover cooked and uncooked foods), student mess, hostels, staff quarters, and college buildings.
- The biogas plant comprises of a floating dome bio-digester, flame arresters, gas compressors, gas metering, and gas stoves provided in the kitchen.
- About 550 m3/day of wastewater has been generated which is recycled and used again for washroom and watering plants.
- About 218 kg/ day of waste from the canteen kitchen goes into the biogas digester.
- On average 440 450 KLD of treated wastewater is available for its reuse. Biologically treated waste water is disinfected using liquid chlorine prior to its pumping for the uses.
- Duel plumbing system has been provided in the Boys Hostel, NRI Hostel, and the Studio Apartments; in general a sum total of 90 KLD is required for the flushing purpose.
- •Few patches in the premises are used to grow vegetables which are often watered with treated water.