

## PARVATHAREDDY BABUL REDDY VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to J.N.T.U.A, Approved by AICTE and Accredited by NAAC with 'A' Grade) KAVALI – 524201, S.P.S.R Nellore Dist., A.P. India. Ph: 08626-243930



## IV-B.TECH-I SEM RENEWABLE ENERGY SYSTEMS (20A02705)

**ASSIGNMENT-2** (Total marks: 5M)

1.

- A. Distinguish between VAWT and HAWT systems?
- B. What is the basic principle of wind energy conversion?
- C. Mention the applications of wind energy?
- D. Define the term geothermal energy?
- E. Define the term magma?

2.

- A. Explain about basic principle of wave energy?
- B. Explain about basic principle of tidal energy?
- C. How biomass conversion takes place?
- D. What is the difference between biomass and biogas?
- E. Mention the types of fuel cell and its advantage?
- 3. Explain briefly about the horizontal wind mills with neat sketch. [CO3,K2]
- 4. Discus with a neat sketch about the operation of flashed steam geothermal power plant [CO4,K2]
- 5. Explain the working principle of OTEC system and also mention its [CO5,K2]

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