

## REAP Class Report of S2 Students

REAP class for S2 Students were conducted between 04-08-2020 to 07 -08-2020. About 50 students attended the REAP class. REAP classes were aimed to clarify the difficulties in the basic subjects like Engineering Mathematics, Engineering Physics and Engineering Chemistry and also to improve their academic attitude. Teaching staffs from ASH departments engaged the students .Online Classes were conducted through Google meet platform. Sharing of study materials through YouTube links and PPTs were done. The staff members have taken good effort in organizing the program.

### List of Faculties who conducted REAP Classes for S2 Students

SI NO	Name	Branch	Date
1	Bineesh K B	AS&H	04-08-2020
2	Vimal V	AS&H	04-08-2020
3	Sandhya P S	AS&H	05-08-2020
4	Sreevidya	AS&H	05-08-2020
5	Shahida K M	AS&H	06-08-2020
6	Sandra	AS&H	07-08-2020

### Topics and you tube links of REAP progamme conducted

#### Mathematics

##### Topics

- 1) Matrix
- 2) Ordinary differential equations
- 3) Multiple Integrals
- 4) Laplace Transfoms
- 5) Fourier Transforms
- 6) Infinite Series

##### Links

- 1) <https://youtu.be/c4lpXAY7Q4s>
- 2) <https://youtu.be/Z72ZKR2KCow>
- 3) [https://youtu.be/l\\_TPBAalPrI](https://youtu.be/l_TPBAalPrI)
- 4) [https://youtu.be/As\\_D51L0Kiq](https://youtu.be/As_D51L0Kiq)
- 5) <https://youtu.be/l2Y3NTf0aMA>

- 6) <https://youtu.be/9D8J0d6Qljl>
- 7) <https://youtu.be/K5O2OQIKi3g>

## **Physics**

### **Topics**

- 1) Introduction to physics
- 2) Basics of engineering physics
- 3) Laser
- 4) Magnetism
- 5) Fiber optics and Photonic
- 6) Nanotechnology
- 7) Ultrasonics

### **Links**

- 1) [https://youtu.be/e-kZm-UU\\_jk](https://youtu.be/e-kZm-UU_jk)
- 2) <https://youtu.be/Hu-JL2J6ncE>
- 3) <https://youtu.be/-4z2w2CFZGg>

## **Chemistry**

- 1) Electrochemistry: Different types of electrodes (general) – SHE, Calomel electrode, Glass electrode and determination of  $E_0$  using SHE & Calomel electrode
- 2) Nernst equation for an electrode- Derivation, application & numericals
- 3) Instrumental Methods: Thermal analysis - Principle, instrumentation and applications of TGA and DTA.
- 4) Nanomaterials – Definition, Classification, chemical methods of preparation - hydrolysis and reduction -Scanning electron microscopy
- 5) Sewage water Treatment - Trickling Filter and UASB process.

### **Links**

- 1) <https://youtu.be/rCiGmvyZ514>
- 2) <https://youtu.be/hCzwKH0QbgU>
- 3) <https://youtu.be/xqBEqiHV1kU>
- 4) <https://youtu.be/AAy4UttQ7k8>
- 5) <https://youtu.be/PR7q4-ilENA>
- 6) <https://youtu.be/TgcUhxc2tLU>