Shantilal Shah Engineering College, Bhavnagar

Civil Engineering Department

PAT/MST – October 2021

PDDC Sem-3 Subject: Remote sensing and GIS (2930606)

- FUNDAMENTAL OF REMOTE SENSING: Definition Components of Remote Sensing Active and Passive Remote Sensing Electro Magnetic Spectrum Interaction of EMR With the Earth's Surface Interactions with the Atmosphere Energy Sources and Radiation. Active and Passive Remote Sensing. Energy Interaction with the Earth Surface Features.
- GEOGRAPHIC INFORMATION SYSTEM Introduction to GIS- Definitions of GIS and related terminology Components of GIS GIS Data Georeferenced data introduction to data input and output in GIS–
 Fundamentals of data quality and Management.
- 3. <u>APPLICATIONS</u> Application of Remote Sensing / GIS— Case studies. GIS and Remote Sensing Usefulness in Civil Engineering.