



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University
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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

47
years

Department of Electronics and Communication Engineering NAVIGATION AND COMMUNICATION RESEARCH CENTRE (NCRC) Short-Term Training Program (OFFLINE)

on
“GNSS :PRINCIPLES, DATA PROCESSING AND APPLICATIONS”

BATCH SIZE: 30

DURATION OF COURSE: 3 DAYS

DATES : 02, 03, 05 Sep 2026

About the Center:

To strengthen research activities, the Navigation and Communication Research Centre (NCRC) was established in 2014 with the support of SAC, ISRO, Ahmedabad, with the vision of developing a full-fledged Centre of Excellence (CoE) for conducting advanced research and imparting training in the areas of Navigation and Communication. Since its inception, NCRC has been engaged in research in the domains of Global and Regional Navigation Systems, Digital Signal Processing, Mobile Communications, Antennas and Propagation, Indoor Localization, and 5G Communications. NCRC has greatly benefited numerous UG and PG students, as well as PhD scholars, by providing them with opportunities to engage in advanced research projects, hands-on training with state-of-the-art equipment, and exposure to cutting-edge technologies.

About the STTP :

The STTP aims to train a group of 30 ECE students from MGIT in the area of navigation as part of research collaboration between CBIT and MGIT .

Possible Outcomes:

- Hands-on experience in GNSS data acquisition, positioning, and data processing using professional GNSS receivers.
- Understanding of GNSS error sources, multipath effects, and mitigation techniques for improved positioning accuracy.
- Exposure to GNSS research methodologies and project development, enabling participants to pursue academic and industry-focused projects in satellite navigation.

Topics to be covered:

- Overview of GNSS, GNSS data formats
- Demonstration of Septentrio PolarX5S receiver & Data Acquisition Aspects
- GNSS Data Processing
- Multipath estimation & mitigation techniques
- Open sources of GNSS Data Acquisition & Usage
- Demonstration of projects carried out in the NCRC lab

CHIEF PATRON -

- Sri. N. Subash (President, CBIT)
- Sri. J. Pratap Reddy (Secretary, MGIT)

PATRON:

- Dr. C. V. Narasimhulu (Principal, CBIT)
- Dr. G. ChandraMohan Reddy (Principal, MGIT)

ADVISORS -

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