MITS
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Estd 1998

NBA NATIONAL BOARD of ACCREDITATION
CIVIL,CSE,ECE,EEE,MECH, MBA & MCA

Accredited By NAAC A+ Grade

nirf NATIONAL INSTITUTIONAL RANKING FRAMEWORK
MITS ranked in the band 251-300-NIRF 2022

A Report On

Industrial Visit

RAJIV GANDHI MEMORIAL TELECOM TRAINING CENTRE

GST Road, Meenambakkam, Chennai- 600016

Tamilnadu, INDIA

Organized by

Department of Artificial Intelligence

02 DECEMBER 2023

Submitted by: Mr. J. Viswanath, Assistant Professor of AI,

Report Received on 02.12.2023.

No of Students attended: 104 students from III Year A (19), B (38) & C (47) (40 Girls + 64 Boys)

No of Faculty Accompany: 6 Faculties (Mr.J.Viswanath, Mr.D.Jaganathan, Mr.T.Pawan, Mrs.R.Dhanalakshmi, Mrs.V.K.AyishaNoori, Mrs.S.Kalaivani)

Mode of Transport: 2 Private buses.

Overview of RGMTTC:

RGMTTC the training centre unit of BSNL, is in the forefront of Telecom industry with core focus on Telecom technologies & Computer Networking.

RGM TTC is located on GST Road, Meenambakkam, opposite to the old Airport of Chennai. It has dynamic access to all places by Air, Road and Rail.

The strength of this Training Centre lies in its rich and sprawling campus, robust material infrastructure and exceptionally talented, trained, qualified, highly motivated and dedicated human resource pool emphasizing personalized training with equipment intensive hands-on applications.

RGM TTC was originally established during early sixties under the administrative control of the Tamilnadu Telecom Circle of erstwhile P&T Department, then the Department of Telecom of Government of India. As an inhouse training institution of DOT, RGMTTC has groomed the Indian talent in the telecom sector for the last Seven decades.

BSNL, being the Service Provider of Landline (POTS), GSM, CDMA, 3G, 4G-LTE, Computer Networking, MPLS - VPN, Broadband, Telecom Switching, Optical Fiber, Rural Communication, Webhosting, Wi-Fi, Wi-MAX and India's indigenous 4G in near future, we assure to make a difference in the training pattern with all high-end equipment's in a single location with well experienced Subject Matter Experts the participants can have industry knowledge-oriented training in its true sense.

The prestigious labs available at RGMTTC includes.

- Mobile
- Optical Fiber Lab
- FTTH with OLT, ONT with FUSION SPLICER
- NG SDH, DWDM and MADM
- Computer Networking
- MPLS VPN
- Broadband & Multiplay
- ISP
- Internet of Things (IoT)
- Civil and Electrical

RGMTC also offers corporate trainings like VERIZON, PGCIL, Railways etc. as well as Student trainings like in plant Training, Internship, Industrial visits and TNSDC sponsored free training courses to unemployed youth in various telecom related courses.

Some of the training conducted by RGMTTC are,

1. Recent Trends in Data Access Technologies
2. Communication and Networking Technologies
3. Next Generation Data Networks
4. Implementation of Mobile Network Models
5. Enterprise Data Networking Technologies
6. Broadband Technician
7. Optical Fiber Splicer and Customized courses in any Telecom Technologies.


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Industrial Visit Outcome:

- **Students gained Knowledge on,**

  An antenna is a metallic structure that is used to transmit radio EM waves. We can define it as the launching of waves or radiations in space, which is efficiently accomplished with dielectric structures called antennas. An antenna acts as a transducer that converts the electrical power into EM waves. The electric charges are the source of the EM or electromagnetic waves.

- **Students explored about the types of Antenna:** The different types of Antenna are as follows:

  Based on the directions

  The antennas are categorized based on the direction of the radiations emitted by them.

  1. Omni-directional antenna,
  2. Semi-directional antenna,
  3. Directional antenna

- **Students can understand about,**

  SMPS stands for Switched-Mode Power Supply. It is an electronic power supply that uses a switching regulator to convert electrical power efficiently. It is also known as Switching Mode Power Supply. It is power supply unit (PSU) generally used in computers to convert the voltage into the computer acceptable range.

  The SMPS device uses switching regulators that switches the load current on and off to regulate and stabilize the output voltage. The average of the voltage between the off and on produces the appropriate power for a device.

  1. Stepping down voltage
  2. Rectifiers
  3. Filtering
  4. Regulating