



**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,  
ACCREDITED BY NAAC and Recognized under 2(f) & 12(b) by UGC, New Delhi.)  
Tamaram, Makavarapalem, Narsipatnam Revenue Division, Visakhapatnam-531113

**COLLABORATIVE INDUSTRIAL VISITS**

**ACADEMIC YEAR**

**2017-18**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

S No	Name of Collaborating Institute/Organization	Batch/Class	Date	Number of students visited
1	Miracle Software Solutions Visakhapatnam	IV B.Tech ECE-1 Students	04.01.2018	71
2	Miracle Software Solutions Visakhapatnam	IV B.Tech ECE-2 Students	05.01.2018	43
3	Doppler Weather Radar Station Visakhapatnam	IV B.Tech ECE-1 Students	05.01.2018	71
4	Doppler Weather Radar Station Visakhapatnam	IV B.Tech ECE-2 Students	04.01.2018	43

*P. S. Kumar*  
Coordinator



**HOD**

*[Signature]*  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF ECE  
Avanthi Institute of Engg. & Tech.  
Makavarapalem, Visakhapatnam Dist-531 113.

*[Signature]*  
Principal  
Avanthi Institute of Engg. & Technology  
Tamaram, Makavarapalem Md.,  
Visakhapatnam District, Pin-531113

## REPORT ON INDUSTRIAL VISIT

**Year:** IV<sup>th</sup> B.Tech ECE-A

**Date:** 04-01-2018

**Event:** Industrial visit

**Name of the industrial visit:** MIRACLE SOFTWARE SOLUTIONS, VISAKHAPATNAM

**Name of the Faculty:** P. Sahithya kiran, P.Ashok Kumar

**EVENT DESCRIPTION:** An industrial visit has been organized by department of Electronics and communication Engineering for IV<sup>th</sup>-year II semester students on 04<sup>th</sup> January 2018.

The main objective of the visit was to provide a technical exposure to the students about the hands-on practical experience with sensors and fundamental applications related to the use of IOT devices in industrial and various core based technical fields. Total 60 students of IV-year Electronics and communication engineering visited MIRACLE SOFTWARE SOLUTIONS, VISAKHAPATNAM

**SESSION ACTIVITIES:** The students were accompanied by 2 faculty members. The buses with students have started from our college at 08.30 AM on 4<sup>th</sup> January 2018 and reached the by MIRACLE SOFTWARE SOLUTIONS, VISAKHAPATNAM 10:30 AM.

### **ABOUT MIRACLE SOFTWARE SOLUTIONS, VISAKHAPATNAM:**

Miracle employs the largest set of certified professionals with extensive industry knowledge in order to assist the students with a with implementing the latest technologies. This is located at Rushikonda, Visakhapatnam, Andhra Pradesh 530048. The business is listed under Internet of Things(IOT), Cloud Integration or Mobile Application Integration category. Miracle's team includes **2600 IT Professionals** with a projected targeted expansion to 3000 by the end of 2023. Miracle employs the largest set of certified professionals with extensive industry knowledge in order to assist the organization with implementing the latest technologies. They have several different models of delivery to suit the needs of students of educational organizations of all sizes

### **ABOUT THE VISIT**

This visit was mainly focused on to make important refinements to software and hardware technologies associated with IOT that enhances the use of these sensors for both research and operational purposes., these IOT has many application areas which helps in military especially firing the missiles on targeted objects without any human involvement. And sensors predict the unknown targets. Utilization of these IOT applications ranges from biomedical laboratories to marine, artificial intelligence and space applications. In biomedical laboratories their services are to monitor patients' health conditions during emergency and sends monitored reports every minute.

## OUTCOME OF THE VISIT

The students have enjoyed the technical Endeavour at the company a lot. The company persons also appreciated our students after the question & answer sessions. Students were well mannered and disciplined throughout the visit and no injury or anything bad happened during the industrial tour. All the Staff members and Students are thankful to Management for providing such an opportunity for the visit.



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# REPORT ON INDUSTRIAL VISIT

**Year:** IV<sup>th</sup> B.Tech ECE-B

**Date:** 04-01-2018

**Event:** Industrial visit

**Name of the industrial visit:** DOPPLER WEATHER RADAR STATION, VISAKHAPATNAM

**Name of the Faculty:** B.N subrahmanyam, K. Raghava kumari

**EVENT DESCRIPTION:** An industrial visit has been organized by department of Electronics and communication Engineering for IV<sup>th</sup>-year II semester students on 04<sup>th</sup> January 2018.

The main objective of the visit was to provide a technical exposure to the students about the real-time weather forecasting and predictive analysis based on radar graphs. Total 60 students of IV-year Electronics and communication engineering visited Doppler weather radar station at Visakhapatnam.

**SESSION ACTIVITIES:** The students were accompanied by 2 faculty members. The buses with students have started from our college at 09.00 AM on 4<sup>th</sup> January 2018 and reached the by Doppler weather radar station at Visakhapatnam 10:45 AM.

## **ABOUT DOPPLER WEATHER RADAR STATION, VISAKHAPATNAM:**

Doppler Weather Radar Station is a Weather forecast service located at Hills, Kailasagiri Ghat Rd, Kailasagiri, Visakhapatnam, Andhra Pradesh 530043, IN. The business is listed under weather forecast service, observatory category. It has received 183 reviews with an average rating of 4.2 stars. Doppler Weather Radar Station is listed under

- Weather forecast service
- Observatory

## **ABOUT THE VISIT**

This visit was mainly focused on to make important refinements to software and hardware technologies associated with Doppler radar that enhanced the use of these radars for both research and operational purposes. Meteorologists see or detect near-ground wind shears, which are dangerous to aircraft. Doppler radar technology also enables meteorologists to forecast the location and severity of weather with greater accuracy, which has resulted in improved public safety and, in some cases, lives saved.

## **OUTCOME OF THE VISIT**

The Doppler weather radar, used for the severity of cyclones and to analyse the impact on the living areas of peoples by analysing the cyclone eye size. Also, detection of obstacles and provide the guidance of aircrafts during night landing. Doppler radar provides the prediction of wind directions and analyse the prior information on real-time upcoming temperature and humidity in atmosphere etc.,



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## REPORT ON INDUSTRIAL VISIT

**Year:** IV<sup>th</sup> B.Tech ECE-A

**Date:** 05-01-2018

**Event:** Industrial visit

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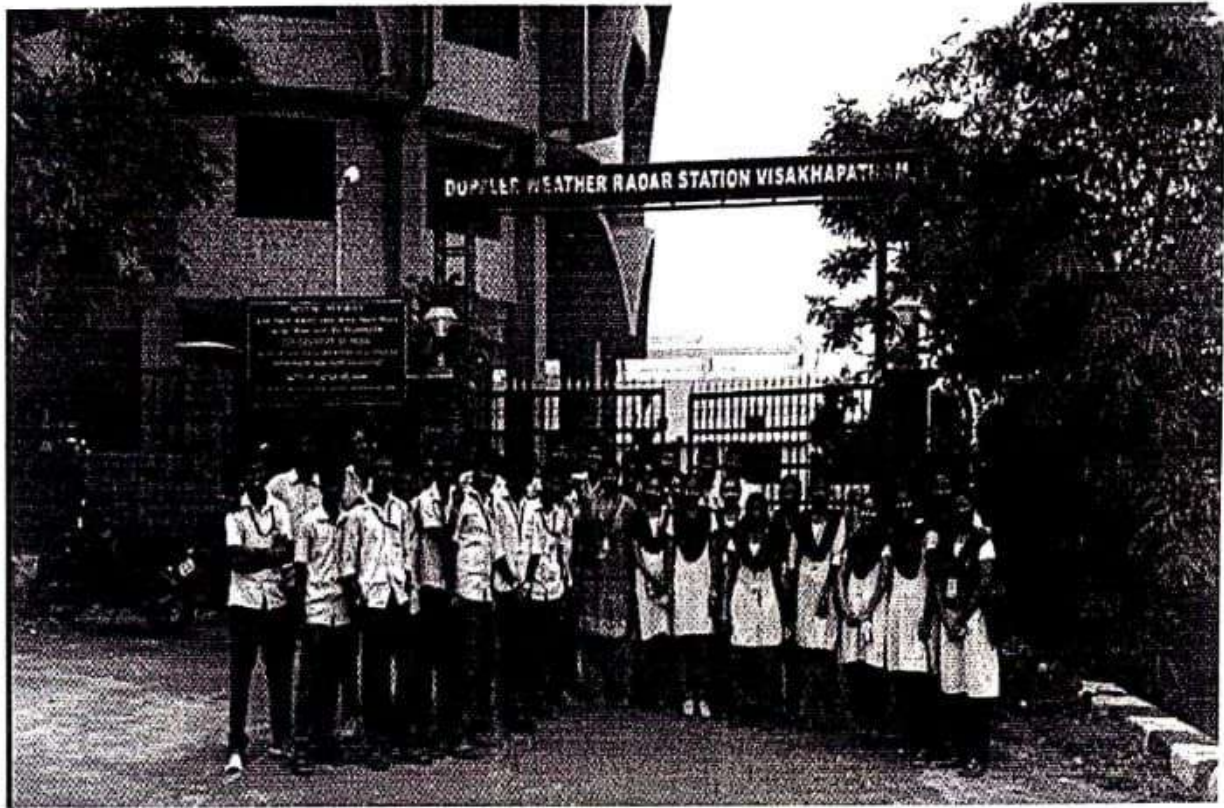
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**Year:** IV<sup>th</sup> B.Tech ECE-B

**Date:** 05-01-2018

**Event:** Industrial visit

**Name of the industrial visit:** MIRACLE SOFTWARE SOLUTIONS, VISAKHAPATNAM

**Name of the Faculty:** sahithya kiran, P.Ashok kumar

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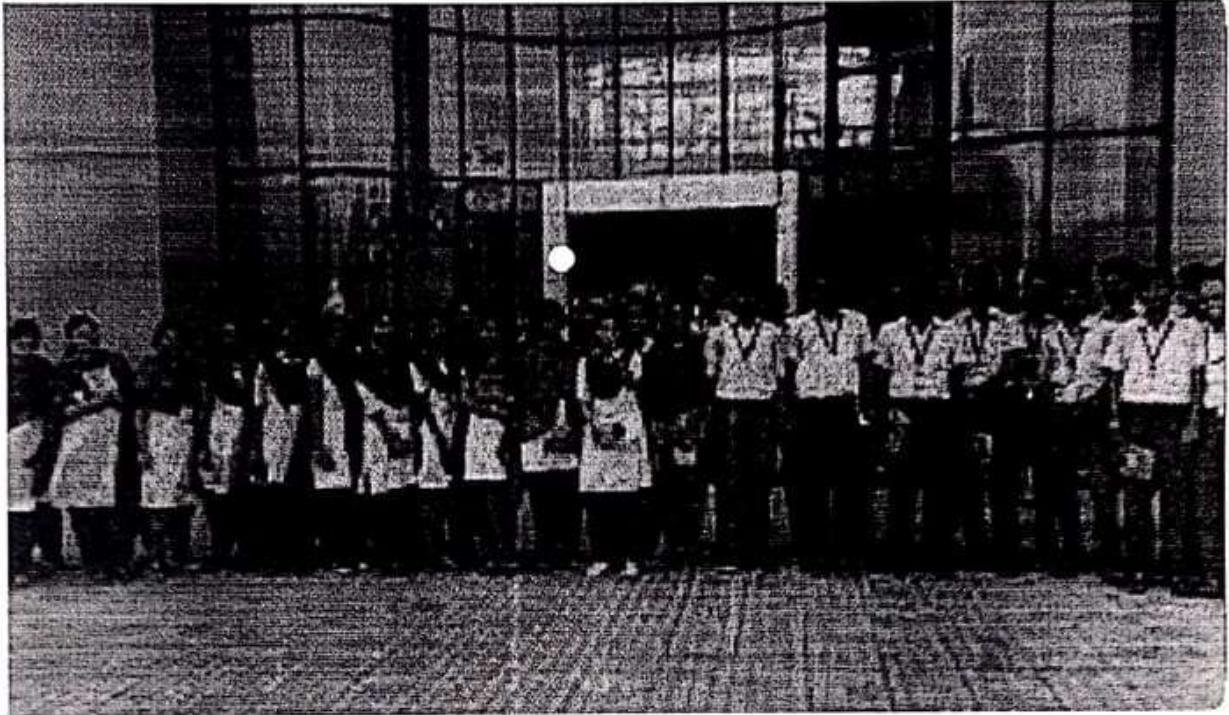
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