



**ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY**  
*(Computer Engineering)*



**ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY**  
*(Computer Engineering)*

**THANK YOU**

VOLUME NO.: 3  
 ISSUE NO.: 8  
 ISSUE DATE: 31/08/2019



**BITS  
&  
BYTES**

**A DEPARTMENTAL NEWSLETTER**



**DR. PINA BHATT**  
 PRINCIPAL



**DR. IRVIN SINGH DUA**  
 HOD

**--: EDITORIAL TEAM :-**

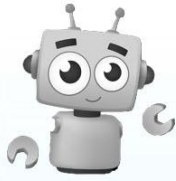
**DESIGNER**  
 DEEP GANDHI  
 MEET SHAH

**CHIEF EDITOR**  
 PROF. A. R. KAZI  
 PROF. UJAS PATEL





**ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY**  
*(Computer Engineering)*



**I  
N  
D  
E  
X**

**VISION & MISSION**

**PEO's & PO's**

**BIG DAY ACTIVITY**  
 BY PROF. VIDUSHI PATEL

**BIG DAY ACTIVITY**  
 BY PROF. NAMITA PATEL

**GROUP DISCUSSION**  
 BY PROF. NAMITA PATEL

**INDUSTRIAL VISIT**  
 ADANI MUNDRA

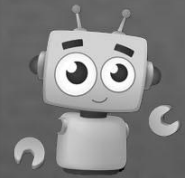
**BIG DAY ACTIVITY**  
 BY PROF. JALPA SHAH

**INDUSTRIAL VISIT**  
 SERPENT CONSULTING SERVICES



**ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY**  
*(Computer Engineering)*





# INDUSTRIAL VISIT

## SERPENT CONSULTING SERVICES

DATE : 20/7/2019

DAY : SATURDAY

NOS. OF STUDENTS : 23

FACULTY COORDINATOR :

PROF. MURTI PATEL

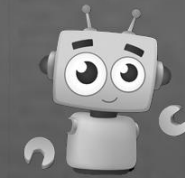
LOCATION :

301, SIDDHRAJ ZAVOD, NEAR  
KH-0 CIRCLE, VASNA HADMATIYA,  
GANDHINAGAR, GUJARAT, INDIA.



POINTS DISCUSSED :

1. SOFTWARE PRODUCT LIFECYCLE
2. TECHNOLOGY OVERVIEW  
(BIG DATA, CLOUD COMPUTING,  
SAP, EMBEDDED, REACTNATIVE,  
AI, MACHINE LEARNING, IOT)
3. PARTNERSHIP & CLIENT
4. SERVICES PROVIDED BY  
COMPANY AND THEIR PRODUCTS  
DEVELOPED TILL NOW.
5. AR LIVE DEMO



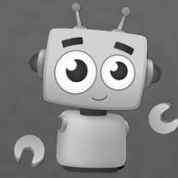
# VISION & MISSION

## VISION

TO CREATE COMPETENT PROFESSIONALS IN THE FIELD OF  
COMPUTER ENGINEERING AND PROMOTE RESEARCH WITH  
A MOTIVE TO SERVE AS A VALUABLE RESOURCE FOR THE  
IT INDUSTRY AND SOCIETY.

## MISSION

1. TO PRODUCE TECHNICALLY COMPETENT AND ETHICALLY  
SOUND COMPUTER ENGINEERING PROFESSIONALS BY IMP-  
-ARTING QUALITY EDUCATION, TRAINING, HANDS ON EX-  
-PERIENCE AND VALUE BASED EDUCATION.
2. TO INCULCATE ETHICAL ATTITUDE, SENSE OF RESPONSIBI-  
-LITY TOWARDS SOCIETY AND LEADERSHIP ABILITY REQUI-  
-RED FOR A RESPONSIBLE PROFESSIONAL COMPUTER ENGI-  
-NEER.
3. TO PURSUE CREATIVE RESEARCH, ADAPT TO RAPIDLY CH-  
-ANGING TECHNOLOGIES AND PROMOTE SELF-LEARNING  
APPROACH IN COMPUTER ENGINEERING AND ACROSS DIS-  
-CIPLINES TO SERVE THE DYNAMIC NEEDS OF INDUSTRY,  
GOVERNMENT AND SOCIETY.



# PEO's & PO's

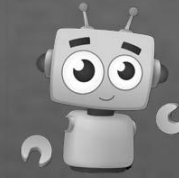
## PROGRAM EDUCATIONAL OBJECTIVES (PEO):

**PEO1:** TO PROVIDE THE FUNDAMENTALS OF SCIENCE, MATHEMATICS, ELECTRONICS AND COMPUTER SCIENCE AND ENGINEERING AND SKILLS NECESSARY FOR A SUCCESSFUL IT PROFESSIONAL.

**PEO2:** TO PROVIDE SCOPE TO LEARN, APPLY SKILLS, TECHNIQUES AND COMPETENCY TO USE MODERN ENGINEERING TOOLS TO SOLVE COMPUTATIONAL PROBLEMS.

**PEO3:** TO ENABLE YOUNG GRADUATES TO ADAPT TO THE CHALLENGES OF EVOLVING CAREER OPPORTUNITIES IN THEIR CHOSEN FIELDS OF CAREER INCLUDING HIGHER STUDIES, RESEARCH AVENUES, ENTREPRENEURIAL ACTIVITIES ETC.

**PEO4:** TO INCULCATE LIFE-LONG LEARNING APTITUDE, LEADERSHIP QUALITIES AND TEAMWORK ABILITY WITH SENSE OF ETHICS FOR A SUCCESSFUL PROFESSIONAL CAREER IN THEIR CHOSEN FIELD.



# BIG DAY ACTIVITY

## HEAP SORT

DATE: 10/7/2019

ACTIVITY NAME:  
ACTIVITY ON HEAP SORT

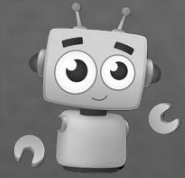
OBJECTIVE:  
TO LEARN AND UNDERSTAND HOW  
HEAP SORT CAN BE IMPLEMENTED  
SUBJECT: ANALYSIS AND DESIGN OF ALGORITHM  
TARGET AUDIENCE: 5TH CE STUDENTS  
NO. OF STUDENTS PRESENT: 58



OUTCOME OF ACTIVITY:  
STUDENTS WILL BE ABLE TO UNDERSTAND THE CONCEPT OF HEAP SORT AND ITS WHOLE PROCESS AND ANALYSIS.

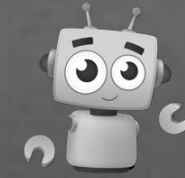
TIME: 12:05 PM TO 01:00 PM  
VENUE: D-315

FACULTY: PROF. JALPA SHAH



# INDUSTRIAL VISIT

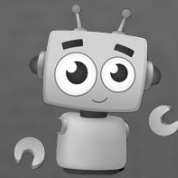
ADANI MUNDRA PORT



# PEO's & PO's

## PROGRAM OUTCOMES (POs) :

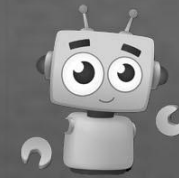
1. **ENGINEERING KNOWLEDGE:** APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.
2. **PROBLEM ANALYSIS:** IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYSE COMPLEX ENGINEERING PROBLEMS REACHING SUBSTANTIATED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES AND ENGINEERING SCIENCES.
3. **DESIGN/DEVELOPMENT OF SOLUTIONS:** DESIGN SOLUTIONS FOR COMPLEX ENGINEERING PROBLEMS AND DESIGN SYSTEM COMPONENTS OR PROCESSES THAT MEET THE SPECIFIED NEEDS WITH APPROPRIATE CONSIDERATION FOR THE PUBLIC HEALTH AND SAFETY, AND THE CULTURAL, SOCIETAL, AND ENVIRONMENTAL CONSIDERATIONS.
4. **CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS:** USE RESEARCH-BASED KNOWLEDGE AND RESEARCH METHODS INCLUDING DESIGN OF EXPERIMENTS, ANALYSIS AND INTERPRETATION OF DATA, AND SYNTHESIS OF THE INFORMATION TO PROVIDE VALID CONCLUSIONS.



# PEO's & PO's

## PROGRAM OUTCOMES (POs) :

5. MODERN TOOL USAGE: CREATE, SELECT, AND APPLY APPROPRIATE TECHNIQUES, RESOURCES, AND MODERN ENGINEERING AND IT TOOLS INCLUDING PREDICTION AND MODELING TO COMPLEX ENGINEERING ACTIVITIES WITH AN UNDERSTANDING OF THE LIMITATIONS.
6. THE ENGINEER AND SOCIETY: APPLY REASONING INFORMED BY THE CONTEXTUAL KNOWLEDGE TO ASSESS SOCIETAL, HEALTH, SAFETY, LEGAL AND CULTURAL ISSUES AND THE CONSEQUENT RESPONSIBILITIES RELEVANT TO THE PROFESSIONAL ENGINEERING PRACTICE.
7. ENVIRONMENT AND SUSTAINABILITY: UNDERSTAND THE IMPACT OF THE PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL AND ENVIRONMENTAL CONTEXTS, AND DEMONSTRATE THE KNOWLEDGE OF, AND NEED FOR SUSTAINABLE DEVELOPMENT.
8. ETHICS: APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.



# INDUSTRIAL VISIT

## ADANI MUNDRA PORT

DATE : 05/07/2019 , 06/07/2019

DAY : FRIDAY , SATURDAY

NOS. OF STUDENTS : 76

### VISIT ARRANGEMENT

1. PROF. JALPA SHAH

### VISIT OFFICIALS

1. PROF. A.R.KAZI

2. PROF. SHACHI JOSHI

3. PROF. UJAS PATEL

4. PROF. HARDIKAMENGHANI

LOCATION :

MUNDRA PORT, KUTCH

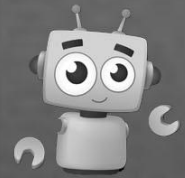
### VISION

TO VISIT ADANI MUNDRA MULTI OPERATING PORT, ADANI WILMAR LTD, ADANI POWER PLANT, ADANI VIEW POINT PORT FOR COAL IMPORTS.

### OBJECTIVE

TO AWARE INDUSTRIAL WORKING CULTURE OF DIFFERENT ADANI SISTER CONCERN.





# BIG DAYS ACTIVITY

KAHOOT QUIZ ON E-R DIAGRAM

DATE:02/07/2019

ACTIVITY NAME:

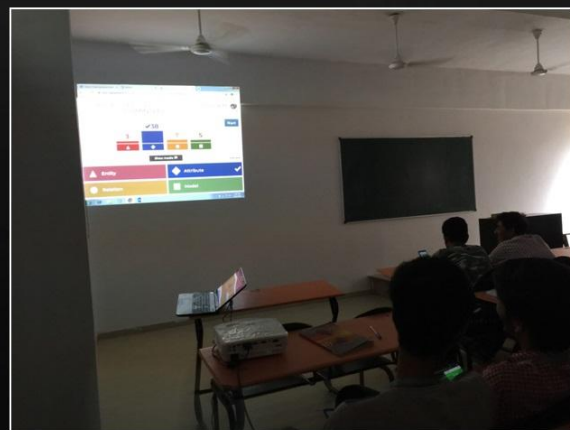
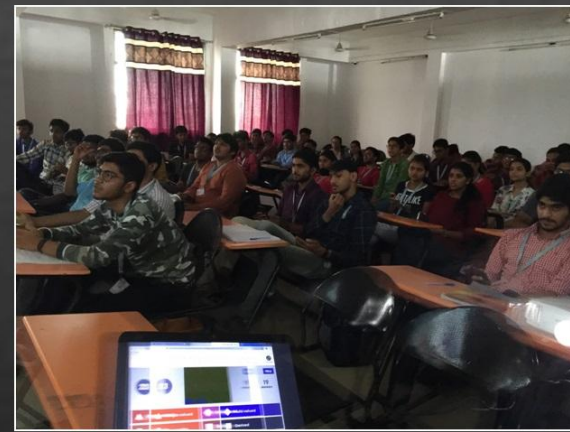
KAHOOT QUIZ ON E-R  
DIAGRAM

OBJECTIVE:

TO LEARN AND UNDERSTAND THE  
BASICS OF E-R MODEL.

SUBJECT:

DATABASE MANAGEMENT



TARGET AUDIENCE:

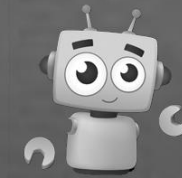
3<sup>RD</sup> CE STUDENTS

NO. OF STUDENTS PRESENT: 54

TIME: 1:00 PM TO 1:55 PM

VENUE: D-511

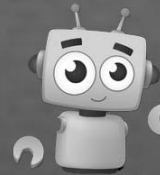
FACULTY: PROF NAMITA PATEL



# PEO's & PO's

## PROGRAM OUTCOMES (POs) :

09. INDIVIDUAL AND TEAM WORK: FUNCTION EFFECTIVELY AS AN INDIVIDUAL, AND AS A MEMBER OR LEADER IN DIVERSE TEAMS, AND IN MULTIDISCIPLINARY SETTINGS.
10. COMMUNICATION: COMMUNICATE EFFECTIVELY ON COMPLEX ENGINEERING ACTIVITIES WITH THE ENGINEERING COMMUNITY AND WITH SOCIETY AT LARGE, SUCH AS, BEING ABLE TO COMPREHEND AND WRITE EFFECTIVE REPORTS AND DESIGN DOCUMENTATION, MAKE EFFECTIVE PRESENTATIONS, AND GIVE AND RECEIVE CLEAR INSTRUCTIONS.
11. PROJECT MANAGEMENT AND FINANCE: DEMONSTRATE KNOWLEDGE AND UNDERSTANDING OF THE ENGINEERING AND MANAGEMENT PRINCIPLES AND APPLY THESE TO ONE'S OWN WORK, AS A MEMBER AND LEADER IN A TEAM TO MANAGE PROJECTS AND IN MULTIDISCIPLINARY ENVIRONMENTS.
12. LIFE-LONG LEARNING: RECOGNIZE THE NEED FOR, AND HAVE THE PREPARATION AND ABILITY TO ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN THE BROADEST CONTEXT OF TECHNOLOGICAL CHANGE.



## KAHOOT QUIZ ON JAVA BASICS

DATE: 26/06/2019

ACTIVITY NAME:

KAHOOT QUIZ ON "BASIC JAVA"

OBJECTIVE:

TO GAIN BASIC KNOWLEDGE OF  
JAVA PROGRAMMING LANGUAGE.

SUBJECT:

OBJECT ORIENTED  
PROGRAMMING USING JAVA

TARGET AUDIENCE: 5TH CE STUDENTS

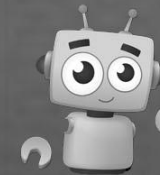
NO. OF STUDENTS PRESENT: 38

TIME: 2:05 PM TO 2:55 PM

VENUE: D-315

FACILITATOR:

PROF. VIDUSHI PATEL



## BIG DAYS ACTIVITY

GROUP DISCUSSION ON FILE SYSTEM VS DBMS

DATE: 2/7/2019

OBJECTIVE:

TO LEARN AND UNDERSTAND  
HOW DATABASE SYSTEM IS BETTER  
THEN FILE BASED SYSTEM

SUBJECT: DBMS

TIME: 2:55 PM TO 3:45 PM

VENUE: D-510

TARGET AUDIENCE: 3RD SEM CE

NO. OF STUDENTS PRESENT: 28



THE MOTIVE OF THE DISCUSSION WAS TO CONDUCT A GROUP DISCUSSION AMONG STUDENTS, TO OBSERVE THEIR PERSONALITIES AND SKILLS, ABILITY TO DISCUSS ON THE GIVEN TOPIC AND ALSO IT'S A VERY EASY WAY TO LEARN. ALL THE STUDENTS GAVE ABOUT THOUGHTS RELATED TO THIS TOPIC.

FACULTY : PROF. NAMITA PATEL