



ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY
(Computer Engineering)

THANK YOU



ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY
(Computer Engineering)

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BITS & BYTES

A DEPARTMENTAL NEWSLETTER



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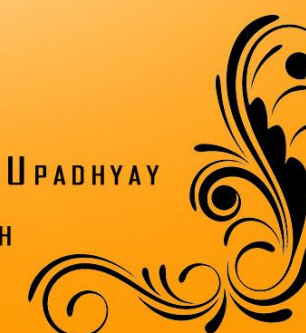
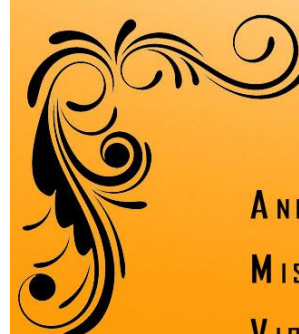
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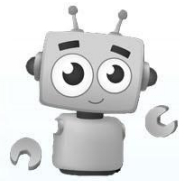
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I Bits & Bytes

N VISION & MISSION

PEO's & PO's

D BIG DAY ACTIVITY
BY PROF. NIRMAL PATEL

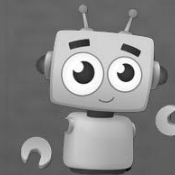
HANDS ON SESSION

E POSTER PRESENTATION

X RED HAT CERTIFICATION
BY FACULTIES



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RED HAT CERTIFICATION BY FACULTIES



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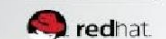
Red Hat Enterprise Linux 7

RANDOLPH R. RUSSELL
DIRECTOR, GLOBAL CERTIFICATION PROGRAMS

2017-12-18 - CERTIFICATE NUMBER: 170-291-165

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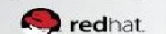
Red Hat Enterprise Linux 7

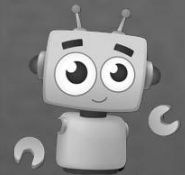
RANDOLPH R. RUSSELL
DIRECTOR, GLOBAL CERTIFICATION PROGRAMS

2017-12-18 - CERTIFICATE NUMBER: 170-291-157

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POSTER PRESENTATION ON COMPILER TOPICS

DATE: 27/09/2017

OBJECTIVE:

STUDENT MASTERY OF CORE
CONCEPTS IN COMPILER.

SUBJECT: COMPILER DESIGN

VENUE: D-511

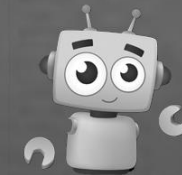
TARGET AUDIENCE: 7TH SEM CE

NO. OF STUDENTS PRESENT: 54

VENUE: D-511

LEARNING OUTCOME:

1. SPECIFY AND ANALYSE THE LEXICAL, SYNTACTIC AND SEMANTIC STRUCTURES OF ADVANCED LANGUAGE FEATURES
2. SEPARATE THE LEXICAL, SYNTACTIC AND SEMANTIC ANALYSIS INTO MEANINGFUL PHASES FOR A COMPILER TO UNDERTAKE LANGUAGE TRANSLATION
3. WRITE A SCANNER, PARSER, AND SEMANTIC ANALYSER WITHOUT THE AID OF AUTOMATIC GENERATORS
4. DESCRIBE TECHNIQUES FOR INTERMEDIATE CODE AND MACHINE CODE OPTIMISATION
5. DESIGN THE STRUCTURES AND SUPPORT REQUIRED FOR COMPILING ADVANCED LANGUAGE FEATURES.



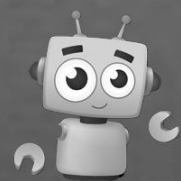
VISION & MISSION

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 IMPARTING QUALITY EDUCATION, TRAINING, HANDS ON EXPERIENCE AND VALUE BASED EDUCATION.
2. TO INCULCATE ETHICAL ATTITUDE, SENSE OF RESPONSIBILITY TOWARDS SOCIETY AND LEADERSHIP ABILITY REQUIRED FOR A RESPONSIBLE PROFESSIONAL COMPUTER ENGINEER.
3. TO PURSUE CREATIVE RESEARCH, ADAPT TO RAPIDLY CHANGING TECHNOLOGIES AND PROMOTE SELF-LEARNING APPROACH IN COMPUTER ENGINEERING AND ACROSS DISCIPLINES TO SERVE THE DYNAMIC NEEDS OF INDUSTRY, GOVERNMENT AND SOCIETY.



PEO's & PO's

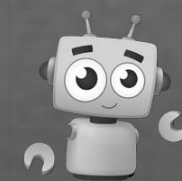
PROGRAM EDUCATIONAL OBJECTIVES (PEO):

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.



HANDS ON SESSION ON PL/SQL

DATE: 20/09/2017

OBJECTIVE:

UNDERSTAND THE CONCEPT OF PL/SQL. HOW QUERY WORKS. AND TO GET PRACTICE ON SQL.

SUBJECT: DBMS

VENUE: D-410

TARGET AUDIENCE: 3RD SEM CE

NO. OF STUDENTS PRESENT: 46



LEARNING OUTCOME:

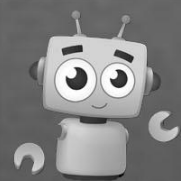
UNDERSTAND THE CONCEPT OF SQL. HOW QUERY WORKS. TO GET PRACTICE ON SQL.

TIME:

ACTIVITY CONDUCTED IN LAB
VENUE: D-410

FACULTY : PROF. NIRMAL PATEL





BIG DAY ACTIVITY

VIDEO LECTURE ON DATABASE TRANSACTIONS - DEADLOCKS

DATE: 6/09/2017

OBJECTIVE:

- TO LEARN CONCURRENCY RELATED PROBLEMS AND HOW CONCURRENCY CREATE DEADLOCK.
- HOW TO PREVENT AND DETECT DEADLOCK ON DATABASE.

SUBJECT: DBMS

TARGET AUDIENCE: 3RD SEM CE STUDENTS

NO. OF STUDENTS PRESENT: 49

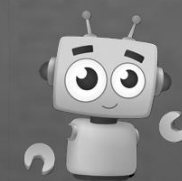
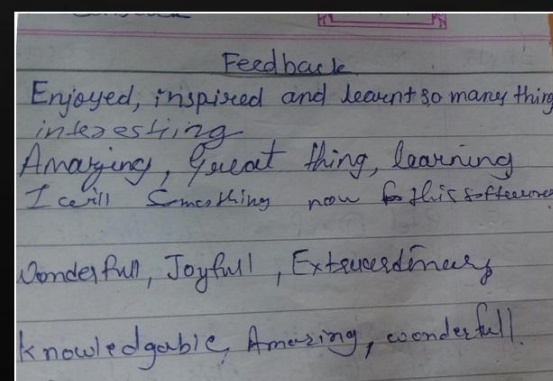
LEARNING OUTCOME:

1. TO LEARN CONCURRENCY RELATED PROBLEMS AND HOW CONCURRENCY CREATE DEADLOCK.
2. HOW TO PREVENT AND DETECT DEADLOCK ON DATABASE.

TIME: 10:40 PM TO 11:30 PM

VENUE: D-511

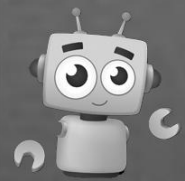
FACULTY : PROF. NIRMAL PATEL



PEO's & PO's

PROGRAM OUTCOMES (POs) :

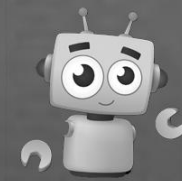
1. **ENGINEERING KNOWLEDGE:** APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.
2. **PROBLEM ANALYSIS:** IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYSE COMPLEX ENGINEERING PROBLEMS REACHING 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.



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.