



Department of Computer Engineering
K. K. Wagh Institute of Engineering Education and Research
Hirabai Haridas Vidyanagari, Amrut Dham, Panchavati, Nashik-422003

Academic Year: 2018– 2019

Semester: I

Course Name: Data Structures and algorithm

Class: SE

Division: A

Name of the Faculty: Prof. Seema Gondhalekar

Name of Method: CASE STUDIES

Description:

In Data structures and Algorithms course there are case studies topics in syllabus which are advanced topics or applications on that unit. For those topics students have to search research paper or documents on internet and study it. I have asked advanced learners to search it on net and study it and give seminar on that topic in class

Impact of Innovative Method:

It helped advanced learner students to learnt many new things while preparing for the topic and but also boosted the confidence to deliver before my own crowd. For other students have understood it nicely with the help of their friends and teacher both

Topics covered

1. Garbage Collection

Delivered by : Nikhil Khairnar

Roll no.: 28

Feedback:

The case study allowed me to study garbage collection in detail, and compare performance of manual memory management and garbage collectors. It also helped in comparing older and newer algorithms for garbage collection.



2. Tower of Hanoi

Delivered by : Siddhi Kulkarni

Roll no. : 31

Feedback :

I had a great experience while explaining the concept of Tower of Hanoi and also realized that teaching in front of crowd is not easy. I would like to thank ma'am for giving me such an opportunity which helped to increase my stage confidence. This case study also changed my way of addressing people. Thank you!



3. Tim Sort

Delivered by: Neha Borse, Snehal Tungar

Feedback:

We felt glad that we got an opportunity to give the case study presentation in the class. It was a good experience, explaining all the students. It improved our presentation skills, self learning ability, and teamwork. We are looking forward for more such opportunities. We are thankful to Gondhalekar ma'am for her support and guidance.

4. Sparse Matrix and its Application

Delivered by: Taral Pawar

Roll no. : 47

Feedback :

Sparse matrix is a topic of great interest as it has wide spread applications right from web development to real life things. It was a great opportunity to study these topics and present them before the class. I personally learnt many new things while preparing for the topic. Taking a case study and presenting in class was a great experience which not only gave me chance to learn new things but also boosted my confidence to deliver before my own crowd. Overall, it was really a nice experience and will also look ahead for more of such opportunities.





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Academic Year: 2018-19

Semester: I

Course Name: Data Structures

Class: SE

Division: B

Name of the Faculty: C R Patil

Name of Method: Case Study

Description:

- Case study on Sparse matrix and its application were presented by Shreyas Kalvankar and Manas Joshi from SEB, Comp. Engg. on 3rd August 2018.

Outcome: Students came to know different applications of sparse matrix

- Case study on Garbage Collection were presented by Vaibhav Bhavsar, Vaibhav Chalse and Vinay Deokar from SEB, Comp. Engg. on 24th September 2018.

Outcome: Students came to know importance of garbage collection in programming and different algorithm for it.

Impact of Innovative Method:

It helped students (who presented the case study) to improve confidence while delivering a case study, got knowledge of particular topic. Other students get motivated for presenting a case studies.



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Academic Year: 2018-19

Semester: I

Course Name: Database Management System

Class: TE A

Name of the Faculty: I.Priyadarshini

Name of Method: Guess Who??Case Study

Description:

1. Guess What?? Is a game of guessing tech terms involved in the course Database Management System with the objective of analyzing whether students are able to explain the concept in such a way others fellow students are able to understand it.
2. A case study on “Application of NOSQL database in Internet” was presented by students in group with the objective of improving their communication skill and teamspirit.

Impact of Innovative Method:

Guess Who? helped students to improve their communication and presentation skill and also through case study they were able to identify the application of the concept which they have learnt



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Course Name: Data Structures and Algorithm

Class: SE

Division: A

Name of the Faculty: Prof. Seema Gondhalekar

Name of Method: CASE STUDIES

Description:

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Impact of Innovative Method:

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1. Topic : Use of sparse matrix in Social Networks
Conducted By : Darshan Bhamre, Shashank Chhajed, Atharva Patil
Feedback : Sparse Matrix was explained very well. Explanation about Use of Sparse matrix in social networks gave a rough idea of the concept which proves really useful.
2. Topic : 4 Queens problem
Conducted By : Vrinda Avhad, Neha Hiray
Feedback : Power point Presentation by both was up to mark and actual demonstration of algorithm, many are able to solve the problem. Concept of back tracking is quite clear after this case study.
3. Topic : Android multiple tasks/multiple activities using stack
Conducted By : Priyanka Lokhande, Saloni Lunawat
Feedback : The diagrammatic representation of stacks with every task in, helped clearing idea about exact working of multiple task in android.

4. Topic : Priority Queue in bandwidth management
Conducted By : Mansi Jadhav, Krupa Patel
Feedback : Explanation using examples and diagrammatic representation of queue proved a effective way of presentation making understanding concepts more easy.
5. Topic : Fibonacci Searching non-uniform access memory storage and in optimization of Unimodal Functions
Conducted By : Ishita Rai, Sharvari Wagh
Feedback : Really hard topic to quickly understand, but solving a problem on board made everyone understand the searching algorithm as well as complexity was explained comparing with other searching algorithm using example
6. Topic : Tim sort as a hybrid stable sorting algorithm
Conducted By : Durgesh Pachghare, Rohan Pawar
Feedback : Concept was roughly cleared and presentation skills were really good.



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Academic Year: 2017– 2018

Semester: I

Course Name: Information System & Engineering Economics

Class: TE

Division: A

Name of the Faculty: Prof. S.T.Patil

Name of Method: Case Study

Description:

Case Study was presented by Niddhi Pal (TE A-Roll No 54) on CRIS (Centre for Railway Information Systems)

The Ministry of Railways set up CRIS as a Society in July 1986. The headquarter of CRIS is in New Delhi, with regional offices in Delhi, Kolkata, Mumbai, Chennai, and Secunderabad. The software was rolled out in December 2007 and already installed at about 2200 data entry nodes at over 290 crew booking points. These are spread over entire Indian Railways. Crew Management System at present has a database covering 89,000 crew members and over 30,000 crew members are being booked daily through the system.

Advantages

- Optimum and effective utilization of crew through monitoring of mandatory requirements.
- Effective scheduling and assignment of train crew.
- Schedule rests (12/16) of the crew based on total duty hours completed.
- Paperless Lobby.
- To generate computerized mileage report for direct submission to branch for payments.



Impact: As the student's father was a loco pilot students got to know details of the software (Centre for Railway Information Systems) and advantages. How organization gets benefited from software to organize and analyze data.



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Academic Year: 2017-18

Semesters: I

Course Name: Data Mining Techniques and Application

Class: BE B

Name of the Faculty: I.Priyadarshini

Name of Method: Case Study

Description: Research Paper regarding application of data mining for society has been discussed with the students. A paper titled “Application of Data Mining Methods in Diabetes Prediction” from IEEE conference has been discussed and the different methods which has been adopted to for diabetes prediction such as GMM Classifier, ELM, SVM , Logistic Regression and ANN has been compared.

Impact of Innovative Method:

Through this case study, Students were able to identify the usage of Data mining to solve real life problems.



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Academic Year: 2017– 2018

Semester: II

Course Name: Advanced Data Structures

Class: SE

Division: A

Name of the Faculty: Prof. Seema Gondhalekar

Name of Method: CASE STUDIES

Description:

In Advanced data structures course there are case studies topics in syllabus which are advanced topics or applications on that unit. For those topics students have to search research paper or documents on internet and study it. I have asked advanced learners to search it on net and study it and give seminar on that topic in class

Impact of Innovative Method:

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1. Topic : Use of binary tree in expression tree evaluation and Huffman's coding
Conducted By : Priyanaka Lokhande, Ankita Shahane
Feedback : Took great efforts on presentation n delivered really well. And the last giving exercise(solving problem) to everyone was really thoughtful, made everyone understand n actual learn the topic.
2. Topic : Data structure used in Web graph and Google maps
Conducted By : Uddesh Sonawane, Sharvari Wagh
Feedback : Possible algorithms used for Google maps were explained quite well, examples for finding places made visualization more easy.
3. Topic : Tries Tree
Conducted By : Durgesh Pachghare
Feedback : Great efforts taken, drawing tries tree with example made understanding simple.

4. Topic : Splay Tree
Conducted By : Mahima Gaikwad
Feedback : Was able to deliver the application part well. Solving a problem made understanding simpler.
5. Topic : Red-Black Tree
Conducted By : Shweta Dalvi
Feedback : Excellent efforts taken with presentation and ppt. Explanation was really up to mark. Everyone was able to memorize concept later too.
6. Topic : AA Tree
Conducted By : Athrva Patil
Feedback : Explained really well, good presentation skills. Examples made understanding easy.
7. Topic : K Dimensional Tree
Conducted By : Namrata Sonawane
Feedback : Presentation was great. Excellent efforts taken. Concept reached everyone really perfectly. Appropriate example solving.



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Academic Year:2017-18

Semester: II

Course Name: Business Intelligence

Class: BE B

Name of the Faculty: A.V. Tavare

Name of Method: Case Study

Description: The data quality management solution improving dashboard effectiveness. A robust ETL implemented to monitor their KPIs effectively has been discussed and the business requirements and solution has been identified by the students.

Impact of Innovative Method:

Through this case study, Students were able identify application of BAI in real life problems.



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1. Topic : Fibonacci Searching non-uniform access memory storage and in optimization of Unimodal Functions
Conducted By : Nidhi Pal
Feedback : Topic was covered nicely
2. Topic : Tim sort as a hybrid stable sorting algorithm
Conducted By : Rohit Tulsiani
Feedback : Presentation skills were really good.



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1. Skip Lists

Conducted By : Nidhi Pal and Reshmi Nayar

Feedback : Example made understanding simple.

2. Topic : Tries Tree

Conducted By : Sandesh

Feedback : Example made understanding simple.

3. Topic : Splay Tree

Conducted By : Rohit Tulsiani

Feedback : Was able to deliver the application part well. Solving a problem made understanding simpler.

4. Topic : Red-Black Tree

Conducted By : Chinmayi Shaligram

Feedback : Excellent efforts taken with presentation and ppt.

5. Topic : AA Tree

Conducted By : Anuja Dixit

Feedback : Explained really well, good presentation skills. Examples made understanding easy.

Note: For feedback please email us at mjmetkar@kkwagh.edu.in

