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

Academic Year: 2018-19 **Semester: I**

Course Name: Mobile Communications

Class: BE **Division: A & B**

Name of the Faculty: G. R. Gupta

Name of Method: Flipped Learning

Description: Flipped learning is a pedagogical approach in which the conventional notion of classroom-based learning is inverted, so that students are introduced to the learning material before class. Students were asked to prepare a short summary about the topic and discuss during the lecture.

Impact of Innovative Method:

It helped students to understand the given topic in detail and share their thoughts about it and retain the concepts during examinations.

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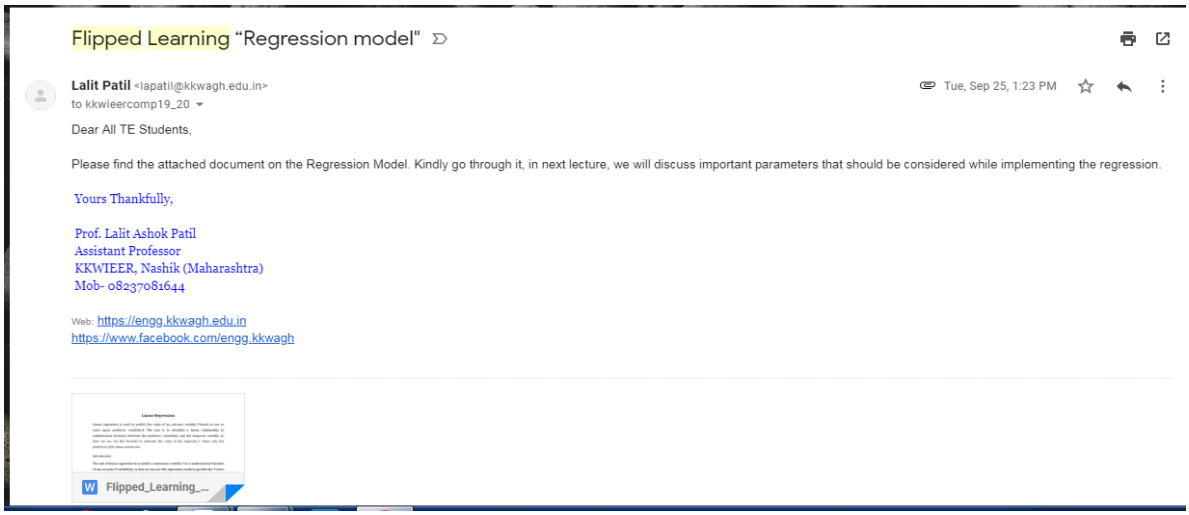
Academic Year: 2018-19 **Semester: I**
Course Name: Skill Development Laboratory
Class: TE **Division: B**
Name of the Faculty: L.A. Patil

Name of Method: Flipped Learning

Topic: Regression Model

Description: A flipped Learning is a type of blended learning where the instructional content, is provided online, outside of the classroom. A document provided to students in advance on topic Regression Model. Then asked the students to go through the document and study the regression parameters in details. The discussion was held in the classroom in the next lecture.



Impact of Innovative Method:

It helped students actively participate in classroom and learned the concept at their own pacee.

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Academic Year: 2017-18 **Semesters: I**

Course Name: Design and Analysis of Algorithms

Class: BE **Division: A & B**

Name of the Faculty: Prof N. G. Sharma & Prof. R. H. Jadhav

Name of Method: Flip Learning

Description: A new teaching Learning methodology was adopted in this semester called Flip Learning. For illustrating the concept of "Algorithm analysis", a Decision tree algorithm was mailed to students in advance and they were asked to study the algorithm and comment on its time complexity. Further the discussion on same was conducted in the lecture on Friday 30th March 2018.It was very interactive and enjoyable session, as different views of different students were put forth. In the concluding session the correct analysis and complexity of the algorithm was explained by the Faculty.

Impact of Innovative Method:

It helped students understand the concept of time complexity and retain the method of computing the same during examinations.

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Academic Year:2017-18 **Semester: II**

Course Name: Microprocessor

Class: SE **Division: A & B**

Name of the Faculty: N.M.Pagare & M. P. Mahajan

Name of Method: Flipped Learning

Description: A flipped classroom is d a type of blended learning where the instructional content, is provided online, outside of the classroom. PowerPoint presentation was provided to students in advance on Unit IV: Signal Diagram, Description of Signals and where asked to study and discuss later in classroom. Questionnaire was given in classroom and discussion was done on the same.

Few Questions discussed in the classroom:

1. 80386 is how man pin PGA?
   32 Pin
2. Size of data bus is_____
   32 bit
3. Which signals indicate which bytes of 32-bit data bus are involved with current transfer.
   Bytes enable signals (BE0 –BE3)
4. Which signal is used to request address pipelining?
   NA#
5. HOLD and HLDA pins belong to which signal?
   Bus arbitration signal
6. Which signal indicates a co processor request for data to be transferred by Intel 80386DX?
   PEREQ
7. Explain the function of BS16#
   It allows Intel 386 DX to directly connect 32-bit and 16-bit data buses.
8. What happens when PEREQ signal is asserted?
   It indicates the coprocessor request for a data operand to be transferred to/from memory by Intel386 DX. In response the Intel386 DX transfers information between the co processor and memory.
9. List different bus control signals.

ADS#, NA#, BS16#, Ready#

10. Which input pin indicates a request for interrupt service which cannot be masked by software?
    NMI

Impact of Innovative Method:

It helped students actively participate in classroom and got deeper knowledge about the concepts.

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Academic Year: 2017-18 **Semesters: II**

Course Name: System Programming and Operating System

Class: TE **Division: A**

Name of the Faculty: A. V. Kolapkar

Name of Method: Flipped Learning "Deadlock Avoidance Algorithms"

Description: Flipped learning is a pedagogical approach in which the conventional notion of classroom-based learning is inverted, so that students are introduced to the learning material before class, with classroom time then being used to deepen understanding through discussion with peers and problem-solving activities facilitated by teachers.

Flipped Learning "Deadlock Avoidance Algorithms"

K.K.Wagh Education Society, Nashik Mail - Flipped Learning "Deadloc... https://mail.google.com/mail/u/0/?ui=2&ik=3413a18f5b&jsver=LcPAST...

Gmail by Google

Anand Kolapkar <avkolapkar@kkwagh.edu.in>

Flipped Learning "Deadlock Avoidance Algorithms"

Anand Kolapkar <avkolapkar@kkwagh.edu.in> Thu, Mar 22, 2018 at 5:09 PM
To: kkwieercomp18_19@googlegroups.com

Dear Students,
Please find attached a document giving details of "Deadlock Avoidance Algorithms". Kindly go through the concepts, we will discuss and explore more details during next week lecture.

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Thanks and Regards

Anand Kolapkar
Assistant Professor,
Department of Computer Engineering,
K.K.Wagh Institute of Engineering Education and Research,
Nashik-422003
Mob: 91-8275450764

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2017K

Impact of Innovative Method:

It helped students understand the concept of Deadlock and able to memorize the key terminologies and retain the concepts during examinations.

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Academic Year: 2017-18 **Semesters: II**

Course Name: Design and Analysis of Algorithms

Class: TE **Division: A & B**

Name of the Faculty: Prof N. G. Sharma & Prof. R. H. Jadhav

Name of Method: Flip Learning

Description: A new teaching Learning methodology was adopted in this semester called Flip Learning. For illustrating the concept of "Algorithm analysis", a Decision tree algorithm was mailed to students in advance and they were asked to study the algorithm and comment on its time complexity. Further the discussion on same was conducted in the lecture on Friday 30th March 2018. It was very interactive and enjoyable session, as different views of different students were put forth. In the concluding session the correct analysis and complexity of the algorithm was explained by the Faculty.

Impact of Innovative Method:

It helped students understand the concept of time complexity and retain the method of computing the same during examinations.

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Academic Year: 2016-17 **Semester: II**

Course Name: High Performance Computing

Class: BE **Division: A**

Name of the Faculty: Jyoti R Mankar

Name of Method: Flipped Learning

Description: A flipped classroom is the type of blended learning where the instructional content, is provided online, outside of the classroom. PowerPoint presentation and research paper was provided to students in advance on Unit VI: HPC enabled advanced technologies. Questionnaire was given in classroom and discussion was done on the same.

Topics discussed in the classroom:

1. Petascale Computing
2. Optics in Parallel Computing
3. Quantum Computers
4. Power-aware Processing Techniques in HPC

Impact of Innovative Method:

It helped students actively participate in classroom and got deeper knowledge about the concepts.

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