



VASAVI COLLEGE OF ENGINEERING (Autonomous)

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(Sponsored by Vasavi Academy of Education)

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 23.05.15

Minutes of the meeting of Board of Studies, Computer Science & Engineering department, held at 10.30 AM on Saturday, 23 May 2015 at the Department of CSE, Vasavi College of Engineering, Ibrahimbagh, Hyderabad.

Members Presents

Prof. Dr. T Adilakshmi, HoD Department of CSE, Vasavi College of Engineering	Chairman & Head
Dr. Ch. Sobhan Babu Assistant Professor IIT Hyderabad	OU nominee
Dr. S. Sameen Fatima Professor, Dept. of CSE, UCE Osmania University	Subject expert
Dr. Siha K Udgata Professor, HCU	Subject expert
Dr. P. Radha Krishna Principal Research Scientist at Infosys Labs, Infosys Limited	Industry representative
Mr. M. Umamahesh Program Manager Microsoft India Pvt. Ltd.	PG alumnus
1 Dr. Nagaratna P Hegde, Professor	Faculty members
2 Dr K. Ram Mohan Rao, Associate Professor	
3 Ms M. Sunitha Reddy, Asst. Professor	
4 Mr R. Sateesh Kumar, Asst. Professor	
5 Mr S. Vinay Kumar, Asst. Professor	
6 Mr M. S. V. Sashi Kumar, Asst. Professor	
7 Mr V. Punna Rao, Asst. Professor	
8 Mr C. Gireesh, Asst. Professor	
9 Mr T. Balaji, Asst. Professor	

Chairman welcomed the members and gave a brief introduction about the department and its achievements.

The following were discussed in the BOS meeting:

- I. Review of PEO's and PO's
- II. Scheme of Instruction
- III. 2nd Year courses – Objectives and Outcomes
- IV. Resolutions

I. Review of PEO's and PO's

1. Recommended to address management and finance aspects of the Graduate attributes in PO's.

II. Review on Course Structure

1. Dr. Sobhan Babu and Mr. Umamahesh suggested offering ALC course in 3rd year 1st semester and DAA course in 2nd year 2nd semester.
2. Mr. Umamahesh and Dr. Radha Krishna suggested that DAA can be offered by including critical and complex assignments.
3. Dr. Siba Udgata and Mr. Umamahesh suggested in offering CN in 3rd year 2nd semester & SE to 3rd year 1st semester along with their respective labs.
4. Dr. Siba Udgata and Mr. Umamahesh suggested in offering AI course in 3rd year 2nd semester and offer MC in 4th year 1st semester.

III. Course Suggestion:

The chairman has given a review of the first year 1st semester and 2nd semester subjects .

The subjects for the 2nd year were decided and the following recommendations were suggested

Courses to be offered in 2nd Year 1st Semester

1. Mathematics - III
2. Data Structures
3. Discrete Structures
4. Logic & Switching Theory
5. Basic Electronics
6. Environmental Studies
Finishing School
7. Data Structures Lab
8. Basic Electronics Lab

Courses to be offered in 2nd Year 2nd Semester

1. Mathematics - IV
2. Object Oriented Programming using Java
3. Microprocessor & Interfacing
4. Design and Analysis of Algorithms
5. Computer Architecture
6. Principles and Programming Languages
Finishing School
7. Java Lab
8. Microprocessor & Interfacing Lab

Course suggestions for Data Structures

1. Dr. Sobhan Babu suggested in including Heap concept. Mr. Umamahesh suggested to include Tries. Replace Unit IV with Advanced DS like Tries, String Matching.
2. Dr. Sobhan Babu suggested in the following: Unit III can contain trees and graphs and Unit IV can contain Tries, String matching, Bloom Filters and Hashing
3. Dr. Radha Krishna suggested removing compression from Unit V.

Textbooks/Learning Resources

- a. **Data Structures** by Trembley & Sorenson
- b. **Data Structures and Algorithms** by Cormen, Charles E. Leiserson, Rivest (CLR)

Course Suggestions for **Discrete Structures**:

1. Dr. Radha Krishna prompted not to have Mathematics when Discrete Structures was offered separately.
2. End of each unit, inclusion of problems would help solve the engineering problems.
3. Dr. Sobhan Babu suggested to include number theory application like adding private and public key concepts in the Properties of the Integers
4. Dr. Sobhan Babu insisted to emphasize on explaining the Graph theory by using Proof Theory taught in Unit I.
5. Discuss the applications of Algebraic structures help students to remember the concepts.
6. Discrete Structures can be named as Discrete Mathematics.

Course Suggestion for **Mathematics-III**

1. Dr. Sobhan Babu expressed his views that 3 different subjects (FT's, Numerical Analysis, and Statistics) are included in one subject M-III which is overloaded.
2. Dr. Radha Krishna insisted that wave equations are never used in CSE so can be avoided in the course or offer it as a part of elective.

Course suggestions for **Logic & Switching Theory**

1. Equipment like breadboards, LED's, Gates would motivate the students learning the theory.
2. Inclusion of Hands-on along with the theory shall be helpful.

Course suggestions for **Computer Architecture**

1. Dr. Radha Krishna and Dr. Sobhan Babu agreed in renaming CA course as Computer Organization.
2. Unit III concepts on parallel processing can be removed

Course suggestions for **Object Oriented Programming using Java**

1. Mr. Umamahesh suggested in offering Multithreading in OS course.
2. Dr. Sameen Fatima suggested that Unit III can be expanded by describing more about Serialization.

Textbooks/Suggested Reading

- a. **Object Oriented Programming through Java** - Dr. Radha Krishna, University Press
- b. **PL/SQL** - Das Gupta & Radha Krishna, Pearson
- c. **Structured Programming** - Timothy Butt

Course suggestions for **Microprocessors and Interfacing**

1. Dr. Sameen Fatima suggested to include concepts on multicore processors instead of 8086

Course suggestions for **Principles of Programming Languages**

1. Dr. Sobhan Babu suggested that Unit V can focus only on one scripting language - Python

Course suggestions for **Design and Analysis of Algorithms**

1. Dr. Sobhan Babu suggested in Removing Heap, Hashing, Set representation, UNION, FIND from DAA and include them in DS in some unit.
2. Include Dijkstra's shortest path algorithm in Greedy approach.
3. Unit III - Use polynomial time algorithm for explaining dynamic programming.

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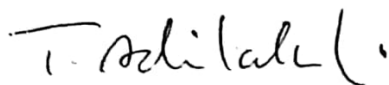
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Course suggestions for **CS Workshop**
MATLAB, Python to be included under development tools.

IV. **Resolutions:** The following resolution have been made in the meeting

1. 2/4 - 1st Semester M-III syllabus has been approved
2. 2/4 - 1st Semester Data Structures using C++ syllabus has been approved
3. 2/4 - 1st Semester Logic and Switching Theory syllabus has been approved
4. 2/4 - 1st Semester Discrete Structures syllabus has been approved
5. 2/4 - 1st Semester Data Structures using C++ Lab syllabus has been approved
6. 2/4 - 2nd Semester Object Oriented Programming using Java syllabus has been approved
7. 2/4 - 2nd Semester Microprocessors and Interfacing syllabus has been approved
8. 2/4 - 2nd Semester Computer Architecture syllabus has been approved
9. 2/4 - 2nd Semester Principles of Programming Languages syllabus has been approved
10. 2/4 - 2nd Semester Design and Analysis of Algorithms syllabus has been approved
11. 2/4 - 2nd Semester Object Oriented Programming using Java Lab syllabus has been approved
12. 2/4 - 2nd Semester Microprocessors and Interfacing Lab syllabus has been approved

Meeting concluded with the Chairman delivering the vote of thanks.



Dr. T. Adilakshmi
(Chairman)

2/7/15