SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
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SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Minutes of Board of Studies Meeting

Date: 29.6.2020 **Time:** 11.00 AM

Zoom: Meeting ID: 834 1185 8948 **Mode:** Virtual

Password: 123456

Agenda:

1. Discussion of curriculum and syllabus for the following programmes
   - **B.E – CSE with specialization in Artificial Intelligence**
   - **B.E – CSE with specialization in Data Science**
   - **B.E – CSE with specialization in Internet of Things**
2. Review of 2015 curriculum and 2019 curriculum.
3. Updating the course contents of Python and problem solving techniques
4. Updating the course contents of problem solving techniques lab
5. Revision of the Programming with C and C++ course contents.
6. Approval of Society 5.0 course.

Prof.Dr.T.Sasikala, Convener, BOS gave the introductory comments. The members reviewed the 2015 curriculum and 2019 curriculum and the following decisions were taken.

Bos-Item-No:1

- Based on the feedback given by students and faculty members, Programming in C and C++ was shifted from second semester to the first semester and Python programming was shifted from the first semester to the second semester.
- The "Programming in C and C++" content was revised to include problem solving concepts.
- Python Programming course content was also revised.
- The course contents of Society 5.0 was approved by the members. This subject will replace Industry 4.0 in the 2019 curriculum.

• The following comments were received about the three new programmes.

Course/ Semester	DATA SCIENCE	IOT	ARTIFICIAL INTELLIGENCE
Sem1	PST with C and C++ Lab: PST Lab	PST with C and C++ Lab: PST Lab	PST with C and C++ Lab: PST Lab
Sem2	Data Structures and Algorithms	Data Structures and Algorithms	Data Structures and Algorithms
Sem 3	Python for Data Analytics can be changed as Python Programming	Computer Communications-> DCN+Basic analog merged Embedded system, Theory +Lab incorporated. Java Programming Theory+Lab removed from sem3 Discrete Mathematics Database Management Systems Computer Communication Software Engineering Database Management Systems Lab	Design thinking syllabus need to incorporate Framework + Basic design thinking principles Computer Communications-> DCN+Basic analog merged Discrete Mathematics Database Management Systems Database Management Systems Lab Theory of Computation Introduction to Robotics Robotics Lab
Sem 4		Software Engineering To be moved to sem 3 SDN Moved to Sem 4 Machine Learning Essentials Theory and Lab to be introduced. Iot and its Architecture shifted from sem 6 to Sem 4 Image processing to be moved to next semesters Data Communication and Computer Networks can be combined together with Basic Analog and digital communication (Subject name: Computer networks and Communication credit - 3) moved to sem 3 Probability and Statistics Industry 4.0	Operating System and operating system lab moved to 5th semester Industry 4.0 is added Microprocessor and computer architecture combined as one subject Machine Learning Essentials to be introduced+Lab Introduction to IoT +IoT Lab is moved from 5th semester Probablity statistics Industry 4.0 Machine Learing Essentials Machine Learning LAb foundations of Artificial Intelligence Microprocessor and computer architecture Introduction to IoT IoT lab

Sem 5	Deep Learning course can be moved to elective	, IoT Architecture and its Protocols moved to Sem 4 from Sem 5 , Privacy and Security in IoT to be removed and introduce Crptography and Neywork Security Image Processing Theory and Lab shifted from Sem4 to Sem5 Mobile Application Development for IoT Theory and Lab shifted from Sem 6 to Sem 5 Fog & Cloud Computing Moved to Sem 5 from Sem 7 Wearable Computing moved to Sem5	big data and analytics combined together human computer interaction added with revised syllabus Fog & Cloud Computing in Sem 5 knowldege management system moved from elective to core Data Analytics for AI operating systems operating systems lab fog and cloud computing human computer interaction big data analytics lab knowledge management system
Sem 6	Natural Language processing to be moved from 7th sem to 6th sem	Mobile Application Development can be moved to sem 5 Computational intelligence introduced in sem6 IoT for Multimedia Technology moved from Sem4 to Sem6 Java Programming for IoT + lab intoduced	Compiler Design moved to elective Deep Learning & Machine Learning to be in Semester 4 Computational intelligence introduced in sem6 - moved from elective robotics automation and simulation predictive and advanced analytics robotics automation lab natural language processing natural language processing lab
Sem 7	Principles of Management and Professional Ethics-common subject	Principles of Management and Professional Ethics - Common subject Wearable Computing moved to sem 5 Cyber Physical System Theory and Lab intoduced in sem7	Principles of Management and Professional Ethics common subject cyber physical systems with lab is shifted from semester 6 computer vision is shifted from elective to core
Sem 8	Resource Management Technique as a common subject	Resource Management Technique as a common subject	Resource Management Technique as a common subject

Elective		Instead of Unix internals, Windows/Linux internals can be suggested. Cryptography and Network Security Computational Intelligence To be made as mandatory subject in sem 7 or sem 8	Deep learning moved to elective compiler design moved to elective knowledge management system moved from elective to core

General recommendations:

- There should be some commonality in the semesters where the common papers are present.
- We can bring in industry experts and hold special sessions to incorporate functional programming.
- Fundamental concepts should not be disturbed in any way.

Convener: Dr. T.Sasikala, Dean School of Computing

External Members:

Academic Expert

- Dr.T.G.Sambanthan, Professor & Head, Department of Computer Science & Engineering NITTTR, Chennai.

Industry Experts

- Mr.Singaravelu Ekambaram, Sr.Vice President, Cognizant Technology Solutions, Chennai.
- Mr. Somasundaram, Vice President, Maveric Systems, Chennai.

Internal Members:

- Dr.L. Lakshmanan, HoD,CSE
- Dr.S.Vigneshwari, HoD,CSE
- Dr. Usha Nandhini, Asst. Professor, CSE
- Ms. Ramya Franklin, Asst. Professor, CSE