



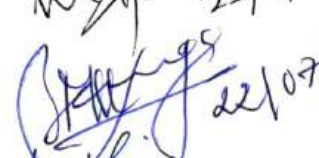
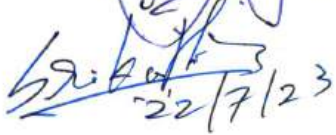
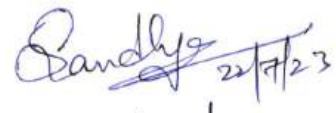
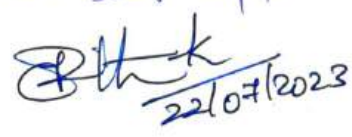
DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
KUDLU GATE, BANGALORE- 560068

Department of Computer Applications

BOS Meeting Held on 22-07-2023

Proceedings of the Meeting

Members Present :

- | | | | |
|-------|-------------------------|----------|---|
| i) | Dr. Vasanthi Kumari . P | Chairman | -  22/7/23 |
| ii) | Dr. M K Banga | Member |  22/07/23 |
| iii) | Mr. Srikanth J | Member |  22/7/23 |
| iv) | Mr. Bala Murali P | Member |  22/7/23 |
| v) | Dr. Anand Kumar M | Member | (Attended Online) |
| vi) | Dr. Baby Maruthi P | Member |  22/7/23 |
| vii) | Dr. Sandhya Madhuri | Member |  22/7/23 |
| viii) | Dr. Pavithra K | Member |  22/07/2023 |

Points Discussed and Observations:

1. Deliberated on the scheme of the core and elective courses of 4 year BCA Programme for Regulations 2023
 - a. The members were given the details of the draft Syllabus of I to VIII semesters BCA Programme in the scheme. The members suggested changes in the draft scheme and syllabus.
2. Deliberated on the scheme of the core and elective courses of 2 year MCA Programme for Regulations 2023



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- a. The members were given the details of the draft Syllabus of I to IV semesters MCA Programme in the scheme. The members suggested changes in the draft scheme and syllabus.

The following are the changes suggested by the members in BCA Scheme:

3. Members suggested to rename the II Semester Mini Project title as Mini Project on Web Programming and to remove the word 'oriented' from it.
4. It was suggested to swap 'Computer Networks' and 'Software Engineering and Testing' from III and IV semester respectively.
5. Members suggested to add value added certification courses as MOOC courses in VI Semester and make sure that the students will do the certification from reputed institutions like NPTEL etc.
6. It was suggested to swap 'Block Chain Technologies' and 'Linux Open Source Systems' from IV and V semester respectively.
7. Members suggested that Probability statistics subject should be taught in collaboration with Maths Department.
8. Members suggested to increase the lab duration (hours) as the current two hours will not be sufficient for writing, debugging and executing programs.
9. Electives Artificial Intelligence and Machine learning subjects in V semester should be swapped with Data Science and Data Mining subject of VI semester.
10. New Elective subjects like – DevOps – I subject is added in IV semester. Computer Vision, Industrial IoT Automation, DevOps – II subjects are added in VII semester. Randomized Approximation Algorithms is added in VIII semester as electives.
11. The title of the subject "Management Information System" in VII semester is renamed as "Information Management System".
12. It is suggested by the members that Internships has to be done by the students in reputed organisation.
13. Cyber law & Crime subject title of VII semester is renamed as Cyber Forensics.
14. Members suggested to change all Audit courses to 1-Credit courses. A new subject is added in IV semester as Liberal Studies(Economics) subject which has 2 credits.



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The following are the changes suggested by the members in BCA Syllabus:

15. In the subject Web programming of I semester, Module – I , the following topics are to be added: Web Sockets, http streams, Basics of Remote of Procedure Call(RPC)
16. In the subject Web programming of I semester replace CSS with CSS2. Flow of the topics in the subject is as follows:
 - a. UNIT I – Add the topics HTML5, XHTML
 - b. UNIT II – Introduction to XML
 - c. UNIT III – Java Script
 - d. UNIT IV – NodeJS
 - e. UNIT V – NodeJS with Database
 - f. Lab Programs are also to be changes according to the syllabus.
17. Queuing theory topic should be introduced in the Mathematics – II subject in II Semester.
18. In the subject OOPS(Object Oriented Programming using Java) of II semester, Module – V replace (entirely) Applets with Advance threading and Java Streams.
19. In the subject Data Structures of II semester, Module III – Add the topic Hash Maps.
20. The subject named IV semester “Internet Technologies” is renamed as “Web Technologies”
21. The subjects Web Programming of I semester and IV semester Internet Technologies contents should not overlap.
22. In the subject of Computer Networks in III semester – Module I – add the topics RPC(Remote Procedure Calls).
23. In the subject Software Engineering and Testing of III Semester – Module 1 – suggested to elaborate and introduce Agile concepts. Add design concepts to Unit II.
24. In the subject Internet Technologies of IV semester Module III – In Java Script add the topics – XML, HTTP, JSON CALLS(get(), put(), delete()). Unit V – PHP replace with NodeJS.
25. In the subject Database Management Systems lab of IV semester programs from 5 to 10 add programs using functions – creation, join, usage, user defined.
26. Members suggested that DBMS subject should have a Mini Project as a mandatory CIA component.
27. In the subject Big Data Analytics using Hadoop of V semester in UNIT – II add the topic Paraquit file systems.



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28. In the subject Data Science of V semester – in UNIT III – change title of UNIT III to Feature Engineering and Machine Learning Algorithms. In the same unit add SVM(Support Vector Machine Algorithm)
29. In the subject Advance Database - NoSQL of semester VI semester – in UNIT V add Introduction to Vector Database.

The following are the changes suggested by the members in MCA Scheme:

30. Members suggested to swap 'Machine Learning' and 'Cyber Security' from III and II semester respectively. Both are made as Integrated subjects.
31. Software Project Management in II semester can be made as an elective.
32. Members suggested to rename Cloud Network Security in III semester as Cloud Infrastructure.
33. As discussed in Department Advisory Board Meeting, a suggestion was proposed regarding Computer Communication Network. Members suggested to shift 'Computer Communication Networks' to II semester and 'System Design Architecture' has to replace Computer Communication Networks' in I semester.
34. Replace Research Methodology and IPR in III semester with Open Source Dot Net. Make Research Methodology and IPR as professional elective.

The following are the changes suggested by the members in MCA Syllabus:

35. Members suggested in the subject in I semester 'Advance Python Programming' Unit V has to be replaced by Flask.
36. It was decided to make Mini Project as a mandatory CIA component.
37. As discussed in Department Advisory Board Meeting, a suggestion was proposed regarding Advanced Java. Accordingly, Members suggested the following changes in the II semester the subject 'Advance Java':
 - g. UNIT III – SpringBoot
 - h. UNIT IV – Advanced SpringBoot
38. Members suggested the following changes in the II semester the elective subject 'Full Stack Development':
 - i. UNIT II – Replace the entire module with NodeJS



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j. UNIT IV – Add Tailwind CSS topic

39. Members suggested the following changes in the II semester the elective subject 'Cloud Technologies' :

k. UNIT III – Add Docker and Kubernetes

40. Members suggested the following changes in the II semester the elective subject 'Data Science' :

l. UNIT I – Add Normalization techniques

m. UNIT V – Replace entire module with Data Visualization using Python

41. Members suggested to include the topics Anomaly Detection and Time series in the II semester subject 'Machine Learning'

42. Members suggested to include LLM, ChatGPT in the III semester subject 'Deep Learning'.

43. New electives to be added are: Quantum Computing in III Semester.

Revision of Mission of the department

44. The draft of the revised Mission is submitted to the BoS members and was approved for revision.

Decisions taken

- i) The modified syllabi of the courses in I and II Semesters of BCA of regulations 2023 were approved. This will be circulated among the members for their concurrence. Details are in Annexure – I.
- ii) The modified syllabi of the courses in III and IV Semesters of BCA regulations 2022 were approved. This will be circulated among the members for their concurrence. Details are in Annexure – I.
- iii) The modified syllabi of the courses V and VI Semesters of BCA regulations 2021 were approved. This will be circulated among the members for their concurrence. Details are in Annexure – I.
- iv) The modified syllabi of the courses in I and II Semesters of MCA of regulations 2023 were approved. This will be circulated among the members for their concurrence. Details are in Annexure – I.



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vi) The modified syllabi of the courses in II and III Semesters of MCA regulation 2022 were approved. This will be circulated among the members for their concurrence. Details are in Annexure – I.

The meeting was concluded with thanks to the chair.

A handwritten signature in blue ink, appearing to be 'Dr. Vasanthi Kumari P'.

(Dr. Vasanthi Kumari P)

Chairman,
BoS in Computer Applications

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