St. Mira's College for Girls, Pune
(Autonomous - Affiliated to Savitribai Phule Pune University)
Department of Computer Science
Board of Studies -Minutes of Meeting
Revised syllabus for TY B.Sc(Comp. Sci.) (2022-25)

A meeting of the Board of Studies of the Department of Computer Science, St. Mira's College for Girls, Pune was held on 14th August 2021.

Agenda of the Meeting
1. To discuss new TYBSc computer science syllabus.
2. To discuss reference books required.
3. To discuss number of lectures required for respective units.
4. To discuss assignments for laboratory curse in computer science.
5. To approve the syllabus of TYBSC Computer Science.

Handouts/Documents shared:
Proposed syllabus soft copies for discussed subjects
Reference books PDFs
Website references

Discussed Items	Conclusion
1. **Subject:** System programming from previous syllabus replaced by **Operating Systems – I** (CS-Paper-I) (**BS52201**) ● 100% update ● Dr Bharambe suggested to add Pre-emptive and non-preemptive scheduling algorithms in Unit 3. ● Under the Unit 4 -memory management, Dr Bharambe suggested to add MFU and Second Chance algorithm.	The changes are discussed and accepted by the committee.
2. **Subject:** Computer Networks – II CS Paper-II (BS52202) ● 36% change ● The suggestion given by Alumni member was discussed to add HTTP under Application Layer. ● As HTTP is already included in Web Technologies subject this change suggested was not considered.	The changes are discussed and accepted by the committee.
3. **Subject:** Web Technologies – I ● 22% change ● As per Dr Bharambe's suggestion, in Unit 1 concepts of HTML and CSS added. ● date and time functions are added in unit 2 ● database connectivity using mysql is added in unit 4 **CS Paper-III (BS52203)**	The changes are discussed and accepted by the committee.

4. **Subject:** Foundations of Data Science **CS Paper-IV (BS52204)** New Subject added by SPPU. 100% change. In Unit 4 the types of data visualisation, univariate Analysis techniques added.	The changes are discussed and accepted by the committee.
5. **Subject:** Object Oriented Programming using Java - I **CS Paper-V (BS52205)** **32% change** In Unit 2, cloneable interfaces with deep and shallow copy added. Under Unit 4, Applets removed as it is not supported by JDK.	The changes are discussed and accepted by the committee.
6. **Subject:** Theoretical Computer Science **CS Paper-VI (BS52206)** **5 % change.** ● In Unit 1 Chowmsky Heirarchy moved from unit 3. ● No of lectures per unit changed. ● Conversion of Regular Grammar to FA and vice versa moved to unit 2.	The changes are discussed and accepted by the committee.
7. **Subject:** System programming assignments from previous syllabus replaced by **Operating system assignments** Practical Course Based on BS52201 **CS Paper-VII(BS52207)** **100 change** ● In assignment 4 FIFO, LRU,OPT AND MFU added. ● Second chance algorithm assignment is removed. ● Dr Bharambe asked to keep all commands in assignment 2 and add few new commands in assignment 1.	The changes are discussed and accepted by the committee.
8. **Subject:** Practical Course Based on BS52203 and BS52204 **CS Paper-VIII (BS52208)** According to previous syllabus, changes made in this paper **60%** This paper divided into 2 section **In section A**, added new assignment based on HTML and CSS **In Section B**, added assignments based on data science using python. It was suggested to use various libraries.	The changes are discussed and accepted by the committee.

9. **Subject:** Practical Course Based on BS52205 **CS Paper-IX (BS52209)** **30% change.** ● Assignments shuffled in two parts viz. Ass1 and Ass2. ● Applets Assignment removed.	The changes are discussed and accepted by the committee.
10. **Subject:** Python Programming **CS Paper-X (BS52210)** **New subject 100 % change.** Number of changes suggested by BOS committee. ● Unit1- Keep simple don't have to explain in details as they have studied it in SY class. ● Unit 4- add Introduction to GUI. ● Unit 4- remove regular expression and exception handling as it is repeating. ● Under assignments use tinker library. Add demo to GUI under assignments.	The changes are discussed and accepted by the committee.
11. **Subject:** Blockchain Technology **CS Paper-XI (BS52211)** **New Subject. 100 % change.** Under Unit 3 for DApps and DAOs it was suggested to give option for students to attempt any assignment.	The changes are discussed and accepted by the committee.
12. **Subject:** Operating Systems - II **CS Paper-I (BS62201)** **25%**	The changes are discussed and accepted by the committee.
13. **Subject:** Software Testing **CS Paper-II (BS62202)** New Subject 100 % change	The changes are discussed and accepted by the committee.
14. **Subject:** Web Technologies – II 20% change ● In Unit 3 JQuery Library added. ● In Unit 4 Added new libraries for codeigniter framework for designing more dynamic web pages. **CS Paper-III (BS62203)**	The changes are discussed and accepted by the committee.
15. **Subject:** Data Analytics **CS Paper-IV (BS62204)** **New Subject 100 % change.**	The changes are discussed and accepted by the committee.

Under assignments add any technique like Split and specify that in the Lab Book	
16. **Subject:** Object Oriented Programming using Java – II 34% change. ● Unit 1- In this unit Collections added and Multithreading shuffled up. ● Unit 2- Database Programming shuffled down. ● Unit 3- Servlets and JSP shuffled up. ● Unit 4- Newly added Spring Framework. **CS Paper-V (BS62205)**	The changes are discussed and accepted by the committee.
17. **Subject:** Compiler Constructor **CS Paper-VI (BS62206)** **15% change** ● Unit 4-Under SDD ordering the evaluation of attributes removed. ● Construction of Syntax tree and the structure of a Type removed. ● Annotated Parse tree added.	The changes are discussed and accepted by the committee.
18. **Subject:** Practical Course Based on BS62201 **CS Paper-VII (BS62207)** 20 % change ● In assignment 4 detailing added in mobileOS.	The changes are discussed and accepted by the committee.
19. **Subject:** Practical Course Based on BS62203 and BS62204 **CS Paper-VIII(BS62208)** According to previous syllabus, changes made in this paper **58%** This paper divided into 2 section **In section A**, added new assignment based on Jquery **In Section B**, added assignments based on data analytics	The changes are discussed and accepted by the committee.
20. **Subject:** Practical Course Based on BS52205 **CS Paper-IX (BS62209)** **20% change** ● Added assignments on collections as separate assignment. ● Added Spring framework demonstration as assignment 6.	The changes are discussed and accepted by the committee.
21. **Subject:** Software Testing Tools **CS Paper-X (BS62210)**	The changes are discussed and accepted by the committee.

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New Subject 100 % change As it is Skill subject no extra practical slot must be assigned to do assignments. Need to cover everything in class.	
22. **Subject:** Project **CS Paper-XI (BS62211)** New Subject 100 % change The platform for doing project was discussed. Under various conditions it was thought of giving liberty to students to use either Windows or Linux platform.	The changes are discussed and accepted by the committee.

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DEPARTMENT: Computer Science [BSc(Computer Science)]

LETTER FOR APPROVAL OF SYLLABUS

We, the Member, Board of Studies- Computer Science, St. Mira's College For Girls,(Autonomous) Pune have examined and approved the syllabus framed for the class T Y B.Sc in the subject **Computer Science Paper I, Computer Science Paper II, Computer Science Paper III, Computer Science Paper IV, Computer Science Paper V, Computer Science Paper VI, Computer Science Paper X, Computer Science Paper XI (SEM V)** for implementing under the autonomy status for the next three academic years 2022-2025 in a meeting held on 14/8/2021. The approved syllabus bears my signature with the date on last page of the original document of ℮ 23 pages in total.

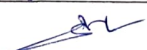| Sr. No.	BoS	Composition	Name, Designation, Place of Work	Signature
1	Head of the Department	Chairperson	Ashwini Kulkarni, Asst. Professor, St.Mira's College for Girls	
2	Faculty	Subject Expert	Mrs. Shubhangi Jagtap Asst. Professor, St.Mira's College for Girls	
4	Faculty	Subject Expert	Mrs. Alka Kalhapure Asst. Professor, St.Mira's College for Girls	
5	Faculty from other than Parent University	Subject Expert	Prof. Aniket Nagne Asst.Prof of comp.science ,MIT College Alandi	
6	Faculty from other than Parent University	Subject Expert	Dr. Manisha Divate Assistant Professor at Department of Computer Science, University of Mumbai.	
7	One Expert-Nominated by VC, SPPU	Expert	Dr. Manisha Bharambe Vice Principal of comp.sci. ,Dept Mes Garware College asnagane@mitacsc.ac.in	

8	One Industry Representative	Industry Expert	Ms. SnehalBiyala (Senior Project manager Cognizant)	
9	One Alumni	Member	Ms. Mamta Choudhary MSc. Computer science from SPPU computer science Department. Working as full stack developer at Agrostar ltd..	
	Faculty	Subject Expert	Smita Borkar, Asst. Professor, St.Mira's College for Girls	
	Faculty	Subject Expert	Swati Pulate, Asst. Professor, St.Mira's College for Girls	

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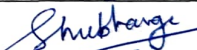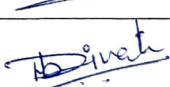| 8	One Industry Representative	Industry Expert	Ms. SnehalBiyala (Senior Project manager Cognizant)	
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