



**Anekant Education Society's**

**Tuljaram Chaturchand College  
of Arts, Science and Commerce, Baramati  
(Autonomous)**

**DEPARTMENT OF COMPUTER SCIENCE**

(Faculty of Science and Technology)

**Minutes of Board of Studies Meeting No. 1**

**Date of Meeting: 09/04/2019**

**Venue: Department of Computer Science**

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**April, 2019**

**Anekant Education Society's**  
**Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati**  
**(Autonomous)**

**Department of Computer Science**

**AGENDA OF THE MEETING**






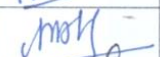


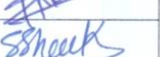



**The agenda of the meeting included the following subjects:**

1. To introduce BOS members.
2. To design and approve syllabus and academic framework of B.Sc.(Comp. Sci.) and M. Sc.(Comp. Sci.) programme of 2019 pattern.
3. To design and approve credit system allotment from the academic year 2019-2020.
4. To design and approve the syllabi of certificate courses to be implemented from the academic year 2019-2020.
5. To design and approve the online courses.
6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
7. Any other issue with the permission of the chairperson.

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**Tuljaram Chaturchand College**  
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Department Of Computer Science

Board of Studies Meeting

Attendance      Date: 09/04/2019

Sr. No.	Name of the Member	Role	Sign
1.	Mr. Upendra Choudhari	Chairman	
2.	Mr. Vilas Kardile	Member(Adhoc)	
3.	Mr. Abhijeet Mankar	Member	
4.	Mr. Vishal Shaha	Member(Adhoc)	
5.	Mrs. Prajakta Kulkarni	Member(Adhoc)	
6.	Mrs. Asmita Bhagat	Member(Adhoc)	
7.	Mr. Rahul Shah	Member(Adhoc)	
8.	Mr. Shashikant Nakate	Member(Adhoc)	
9.	Mrs. Salma Shaikh	Member(Adhoc)	
10.	Mr. Purushottam Dixit	Member(Adhoc)	
11.	Dr. S. N. Shinde	Member (Expert from SPPU, Pune)	
12.	Dr. Pravin L. Yannawar	Member (Expert from BAMU, Aurangabad)	Attended the meeting through <u>skype</u>
13.	Dr. Rahul Jadhav	Member (Expert from Bharti Vidyapeeth, Karad)	
14.	Mr. Preetam Yadav	Member (Industry Representative CEO, Xento Systems, Pune )	---
15.	Mr. Yogesh More	Member(Meritorious Alumni)	---

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**Department of Computer Science**

Board of Studies Meeting

**Absentee Report**

Date:09/04/2019

<b>Sr. No.</b>	<b>Name of the Member</b>	<b>Role</b>
1.	Mr. Preetam Yadav, CEO DB Xento Systems, Pune	Member (Industry Representative)
2.	Mr. Yogesh More , Senior Systems Engineer, Infosys Limited , Pune	Member (Meritorious Alumni)

## **MINUTES OF THE MEETING**

The meeting of Board of Studies in Computer Science was successfully held on 9<sup>th</sup> April, 2019 at 11:00 am in the Department of Computer Science, T. C. College, Baramati. The meeting took place both online and offline, adhering to the guidelines and protocols set by the college under the guidance of Mr. Upendra D. Choudhari, Chairman of the Board of Studies in Computer Science. Initially Chairman Mr. U.D. Choudhari welcome and introduced all the members. Dr. S. N. Shinde Sir, Principal CMCS College, Nashik expert from SPPU, Pune and Dr. Rahul Jadhav Sir, Associate Professor from Bharati Vidyapeeth Deemed University YMIM, Karad gave their valuable suggestions for designing Credit Structure and Course Structure. There was detailed discussion on subject contents of F.Y. B.Sc.(Comp. Sci.) and M.Sc. (Comp. Sci.)-I, Skill Development subjects for M.Sc.(Comp. Sci.). Certificate Course Contents, it's execution and evaluation strategies were finalized as per suggestion of experts. Industry Experts Mr. Pritam Yadav and Mr. Yogesh More were unable to attend the Meeting due to some problems. At the end, Mr.V.V. Kardile Sir gave vote of thanks and concluded the meeting.

### **1. To design and approve course and credit structure for the B.Sc.(CS) and M. Sc. (CS) programme in accordance with 2019 pattern.**

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for Semester I of the F.Y.B.Sc.(Comp.Sci.) program well in advance of the BOS meeting. This preliminary draft was then shared with all BOS members for their input and suggestions to enhance its quality. Mr. U.D.Choudhari explained detailed credit structure of B.Sc.(Comp.Sci.) and M.Sc. (Comp. Sci.).

In light of the constructive suggestions offered by the BOS members, the curriculum structure underwent necessary revisions. After thorough deliberation and careful consideration, the curriculum of following courses was presented for approval during the BOS meeting.

**B.Sc.(Computer Science) Credit Structure (2019-Pattern)**

Sem	Paper Code	Title of Paper	No. of Credits	Type	Marks
<b>F.Y.B.Sc.(Comp. Science) Sem I, II</b>					
I	CSCO1101	Basic Programming using C	2	Theory	60 + 40
	CSCO 1102	DBMS – I	2	Theory	60 + 40
	CSCO1103	Lab Course – I Basics on C	2	Pract.	60 + 40
	CSCO1104	Lab Course – II Based on DBMS I	Grade	Pract.	60 +40
II	CSCO 1201	Advanced Programming using C	2	Theory	60 + 40
	CSCO 1202	DBMS – II	2	Theory	60 + 40
	CSCO 1203	Lab Course – I Advanced C Prog.	2	Pract.	60 + 40
	CSCO1204	Lab Course– II DBMS II (PL/PgSql)	Grade	Pract.	60 + 40
<b>S.Y.B.Sc.(Comp. Science) Sem III, IV</b>					
III	CSCO 2301	Data Structures using C	3	Theory	60 + 40
	CSCO2302	Introduction to Web Technology	3	Theory	60 + 40
	CSCO2303	Lab Course I : Based On CSCO2301	2	Pract.	60 + 40
	CSCO2304	Lab Course II: based On CSCO2302	Grade	Pract.	60 +40
		Certificate Course I			
IV	CSCO2401	Object Oriented Concepts using Java	3	Theory	60 + 40
	CSCO2402	Software Engineering	3	Theory	60 + 40
	CSCO2403	Lab Course I: Based On 2401	2	Pract.	60 + 40
	CSCO2404	Lab Course II : Based On CSCO2402 with Mini Project	Grade	Pract.	60 + 40
		Certificate Course II			
<b>T.Y.B.Sc.(Comp. Science) Sem V , VI</b>					
V	CSCO3501	System Programming & Operating System	3	Theory	60 + 40
	CSCO 3502	Theoretical Computer Science	3	Theory	60 + 40
	CSCO3503	Computer Networks - I	3	Theory	60 + 40
	CSCO3504	Web Development – I	3	Theory	60 +40
	CSCO3505	Advanced Programming in Java	3	Theory	60 + 40
	CSCO3506	Object Oriented Software Engineering	3	Theory	60 + 40

	CSCO3507	Lab Course I: Based on CSCO3501	2	I / E	60 + 40
	CSCO3508	Lab Course II: Based on CSCO3505	2	Pract.	60 + 40
	CSCO3509	Lab Course III: Based on CSCO3504	2	Pract.	60 + 40
		Certificate Course III	2	Pract.	60 + 40
VI	CSCO3601	Advanced Operating System	3	Theory	60 + 40
	CSCO3602	Compiler Construction	3	Theory	60 + 40
	CSCO3603	Computer Networks - II	3	Theory	60 + 40
	CSCO3604	Web Development–II	3	Theory	60 + 40
	CSCO3605	Advanced Java Technologies – Frameworks	3	Theory	60 + 40
	CSCO3606	Software Metrics & Project Management	3	Theory	60 + 40
	CSCO3607	Lab Course I: Based on CSCO3601	2	Pract.	60 + 40
	CSCO3608	Lab Course II: Based on CSCO3605 & Mini Project using JAVA	2	Pract.	60 + 40
	CSCO3609	Lab Course III: Based on CSCO3604 & Mini Project using PHP.	2	Pract.	60 + 40

**B.Sc. (Computer Science): Total credits = 50 + 62 + 52 = 164**

**Course & Credit Structure M.Sc. (Computer Science) 2019 Pattern**

Sr. No	Class	Sem	Code	Paper	Paper Title	Credit	Exam	Marks
1	M.Sc. - I	I	COMP4101	Theory	Principles of Programming Languages (C)	4	I / E	60 + 40
2			COMP4102	Theory	Cryptography and Network Security (C)	4	I / E	60 + 40
3			COMP4103	Theory	Database Technologies (C)	4	I / E	60 + 40
4			COMP4104	Theory	Design and Analysis of Algorithms (C)	4	I / E	60 + 40
5			COMP4105	Theory	Programming with DOT NET (C)	4	I / E	60 + 40
6			COMP4106	Pract.	Lab Course on DOT NET, PPL & Database Technologies (C)	4	I / E	60 + 40
7			HR-101	----	Human Rights – I	2	----	----
8			CYS-101	----	Introduction to Cyber Security – I	2	----	----
<b>Note: Credit: 24. Core subjects is compulsory and Extra credits (2+2=4) is also compulsory.</b>								
9	M.Sc. - I	II	COMP4201	Theory	Digital Image Processing (C)	4	I / E	60 + 40
10			COMP4202	Theory	Data Mining and Data Warehousing (C)	4	I / E	60 + 40
11			COMP4203	Theory	Python Programming (C)	4	I / E	60 + 40
12			COMP4204	Theory	<b>Advanced Operating System (EI)</b>	4	I / E	60 + 40
13			COMP4205	Pract.	Lab Course on Python Programming and Advance Operating System (C)	4	I / E	60 + 40
14			COMP4206	Pract.	<b>Project (EII)</b>	4	I / E	60 + 40



15			COMP4207	Theory	<b>Artificial Intelligence (EIII)</b>	4	I / E	60 + 40
16			CC-12	----	Certificate Course – I	2	----	---
17			CYS-102	----	Introduction to Cyber Security – II	2	----	----
<b>Note: : Credit: 28. Core subjects is compulsory and Extra credits (4) is also compulsory.</b>								
18	M.Sc. - II	III	COMP5301	Theory	Mobile Technologies (C)	4	I / E	60 + 40
19			COMP5302	Theory	Soft Computing (C)	4	I / E	60 + 40
20			COMP5303	Theory	Web Services (C)	4	I / E	60 + 40
21			COMP5304	Theory	<b>Software Architecture&amp; Design Pattern (EI)</b>	4	I / E	60 + 40
22			COMP5305	Pract.	Lab Course-on Mobile Technologies and Web Services (C)	4	I / E	60 + 40
23			COMP5306	Pract.	<b>Project (EII)</b>	4	I / E	60 + 40
24			COMP5307	Theory	<b>Recent Trends in IT (Internet of Things) (EIII)</b>	4	I / E	60 + 40
25			CC-23	----	Certificate Course – II	2	----	----
26			SD-23	----	Skill Development – I	2	----	----
<b>Note: Credit: 28. Core subjects is compulsory and Extra credits (2+2) is also compulsory.</b>								
27	M.Sc. - II	IV	COMP5401	Project	Industrial Training/ Institutional Project <b>(IT) (Core)</b>	16	I / E	60 + 40
28			SD-23	----	Skill Development – II	2	----	----
<b>Note: Credit:16. Core subject is compulsory,</b>								
<b>Total Credits : Academic Credits(24+28+28+16 = 96) + Extra Credits (14) = 110</b>								

**Resolution No. 1:** The curriculum course structure for F.Y.B.Sc.(CS)and M.Sc.(CS) (2019 pattern) has been unanimously approved by all members of the BOS.

**2. To design and approve curriculum of F.Y.B.Sc.(CS) Semester-I (2019 pattern) to be implemented from the academic year 2019-2020.**

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for F.Y.B.Sc.(Comp.Sci.) Semester I (2019 pattern) program well in advance of the BOS meeting. This preliminary draft was then shared with all BOS members for their input and suggestions to enhance its quality. During the meeting, Dr. Rahul Jadhav Sir suggested to increase the lectures in logic development to help students. Dr. S.N. Shinde Sir suggested some graphics assignments and C programming case studies like menu driven and application based assignments. During the discussion, some minor changes were suggested by the board members. The board thoroughly discussed and finalized the syllabus for the courses of F.Y.B.Sc.(Comp. Sci.) Semester I (2019 pattern).

Course Structure for F.Y.B.Sc.(C.S.) Sem- I & II 2019 Pattern

Sr. No.	Class	Pattern	Sem	Course Code	Course Title	Course Type	Credits
1	F.Y.B.Sc. (C.S.)	2019	I	CSCO1101	Basic Programming using C	Theory	2
2		2019		CSCO 1102	DBMS – I	Theory	2
3		2019		CSCO1103	Lab Course – I Basics on C	Practical	2
4		2019		CSCO1104	Lab Course – II Based on DBMS I	Practical	Grade
5		2019	II	CSCO 1201	Advanced Programming using C	Theory	2
6		2019		CSCO 1202	DBMS – II	Theory	2
7		2019		CSCO 1203	Lab Course – I Basics on Advanced C	Practical	2
8		2019		CSCO1204	Lab Course– II Basics on DBMS II (PL/PgSql)	Practical	Grade

**Resolution No. 2:** The curriculum for F.Y.B.Sc.(Comp.Sci.) Semester I(2019 pattern)has been unanimously approved by all members of the BOS.

**3. To design and approve curriculum of M.Sc. (CS)-I Semester-I (2019 pattern) to be implemented from the academic year 2019-2020.**

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for M.Sc. (Comp.Sci.) Semester I (2019 pattern) program well in advance of the BOS meeting. This preliminary draft was then shared with all BOS members for their input and suggestions to enhance its quality. During the meeting, Dr. Shinde Sir and Dr. Jadhav Sir suggested to add subjects like content management & Latex. During the discussion, some minor changes were suggested by the board members. The board thoroughly discussed and finalized the syllabus for the courses of M.Sc.(Comp.Sci.) Semester I (2019 pattern).

**Course Structure for M..Sc.(C.S.) – Semester – I (2019 Pattern)**

Sr. No.	Class	Pattern	Sem	Course Code	Course Title	Course Type	Credits
1	M.Sc. (C.S.)-I	2019	I	COMP4101	Principles of Programming Languages (C)	Theory	4
2				COMP4102	Cryptography & Network Security(C)	Theory	4
3				COMP4103	Database Technologies (C)	Theory	4
4				COMP4104	Design and Analysis of Algorithms (C)	Theory	4
5				COMP4105	Programming with DOT NET (C)	Theory	4
6				COMP4106	Lab Course on DOT NET, PPL & Database Technologies (C)	Practical	4
7				HR-101	Human Right	Theory	2
8				CYS-101	Introduction Cyber Security – I	Theory	2
9			II	COMP4201	Digital Image Processing (C)	Theory	4
10				COMP4202	Data Mining and Data Warehousing (C)	Theory	4
11				COMP4203	Python Programming (C)	Theory	4
12				COMP4204	<b>Advanced Operating System (Elective I)</b>	Theory	4

13				COMP4205	Lab Course on Python Programming and Advance Operating System (C)	Practical	4
14				COMP4206	<b>Project (Elec. II)</b>	Practical	4
15				COMP4207	<b>Artificial Intelligence (Elect. III)</b>	Theory	4
16				COMP4208	Modelling and Simulation ( <b>Elect. IV (op)</b> )	Theory	4
17				CYS-102	Introduction Cyber Security – II	Theory	2
18				CC-12	Certificate Course – I	Theory	2

**Resolution No. 3:** The curriculum for M.Sc.(Comp.Sci.) Semester I (2019 pattern) has been unanimously approved by all members of the BOS.

**4. To design and approve curriculum of certificate courses for UG and PG programmes as per 2019 pattern.**

The Board of Studies (BOS) members meticulously designed and crafted the curriculum of Certificate courses for B.Sc. (Comp.Sci.) and M.Sc. (Comp.Sci.) (2019 pattern) program.

**Resolution No. 4:** The curriculum of Certificate Courses for B.Sc. (Comp.Sci.) and M.Sc. (Comp.Sci.) (2019 pattern) program. has been unanimously approved by all members of the BOS.

**5. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.**

The Chairman initiated the discussion by highlighting the importance of incorporating feedback from both Alumni and current students in the syllabus design process. The department created a curriculum feedback form and distributed it to students, teachers, parents, alumni, and employers. Subsequently, the stakeholders filled out the feedback forms. It was noted that their insights and suggestions would greatly contribute to creating a curriculum that aligns with the needs and expectations of the students. Therefore, the BOS members reviewed the feedback and suggestions given by the alumni and students and

incorporated the relevant suggestions into the curriculum of F.Y.B.Sc.(Comp.Sci.) and M.Sc. (Comp.Sci.).

**Resolution No. 5:** Considered and Approved

**6. Any other issue with the permission of the chairperson.**

The following agenda items were added as additional items to the Board of Studies (BOS) meeting.

**6 (i) Conduct the workshop and seminars as per curriculum by industry expert and consider it for internal evaluation.**

**Resolution No. 6 (i):** Considered and Approved

The meeting of BOS concluded with the vote of thanks by Mr. V. V. Kardile.



Mr. Upendra D. Choudhari  
Chairman  
Board of Studies Computer Science



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Principal  
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