



Anekant Education Society's

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

**DEPARTMENT OF ELECTRONICS**

(Faculty of Science and Technology)

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

**Date of Meeting: 08/04/2019**

**Venue: Department of Electronics**



Anekant Education Society's

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

**Department of Electronics**

**NOTICE**

**Board of Studies Meeting**

All members of the Board of Studies in Electronics are hereby informed that, as per Notice No. dated 05/04/2019 issued by the college, our BOS meeting is organised on 8 April 2019 at 12.00 pm in Department of Electronics. As esteemed members of the board, your presence and input during the meeting would be greatly appreciated.

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

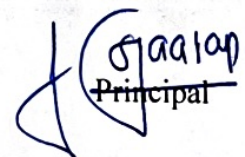
1. To design and approve course and credit structure for the B.Sc. and M. Sc. programme in accordance with 2019 pattern.
2. To prepare and approve curriculum of F.Y,B.Sc Semester-I & II and F. Y. B.Sc.(Comp. Science) Semester-I & II (2019 pattern) to be implemented from the academic year 2019-2020.
3. To prepare and approve curriculum of M.Sc.-I Semester-I & II (2019 pattern) to be implemented from the academic year 2019-2020.
4. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum
5. Any other matter with the permission of the chair.

Please attend meeting on time and share your valuable views, ideas and knowledge.



Chairman BOS in Electronics



  
Principal

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

Department of Electronics

**AGENDA OF THE MEETING**

**Date:- 8/04/2019**

The agenda of the meeting included the following subjects:

1. To design and approve course and credit structure for the B.Sc. and M. Sc. programme in accordance with 2019 pattern.
2. To prepare and approve curriculum of F.Y,B.Sc Semester-I & II and F. Y. B.Sc.(Comp. Science) Semester-I & II (2019 pattern) to be implemented from the academic year 2019-2020.
3. To prepare and approve curriculum of M.Sc.-I Semester-I & II (2019 pattern) to be implemented from the academic year 2019-2020.
4. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum
5. Any other matter with the permission of the chair.



**List of Members Presented for the BOS Meeting**

The following internal and external BOS members were attended the Board of Studies (Electronics) meeting through online/offline mode held on 8 April, 2019.

Sr. No.	Name of Member	Designation
1.	<b>Dr. Deshpande J. D.</b> Head & Professor, Department of Electronics, T. C. College, Baramati.	Chairman
2	<b>Asso. Prof .V.T.Yelpale</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
3	<b>Asso. Prof.S.H.Gawade</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
2.	<b>Dr. Mrs. Pawar A. M.</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
3.	<b>Dr. Patil S. N.</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
4.	<b>Asst.Prof. Kothawale A. S.</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
5.	<b>Mrs. Rupnawar P. D.</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
6.	<b>Mrs. Gawade S. A.</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
7.	<b>Mrs.Dhumal S.D</b> Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
8.	Dr.U.N.Hivarkar (Capgemini Pune)	Industry Expert
9.	Dr.Helambe (Devgiri College of Aurangabad)	External Member from other University(Online)
10.	Dr.Sushma Kulkarni(M.S.G College ,Malegaon,Nashik)	External Member from other University(Online)
11.	Dr.Wasambekar (Shivaji University,Kolhapur)	External Member from other University(Online)
12.	Mr.Akash Shinde	Meritorious Alumni

## **MINUTES OF THE MEETING**

As per the Notice No.        dated 05/04/2019, issued by the college, the meeting of Board of Studies in Electronics was successfully held on 8 April , 2019 at 12:00 pm in the Department of Electronics, 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 Dr. J. D. Deshpande, Chairman of the Board of Studies in Electronics, the meeting commenced with a warm welcome to all the esteemed members, followed by a brief introduction of the meeting's objectives.

During the meeting, fruitful discussions were held on the items mentioned in the circulated agenda. We are pleased to inform you that the following resolutions were made during the BOS meeting.

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

The Board of Studies (BOS) members meticulously designed and crafted the Course Structure for B.Sc. and M.Sc (Electronics) program 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.J.D.Deshpande and Dr. A. S. Kothawale presented the course and credit structure on a course-by-course basis, and the recommendations and valuable insights provided by the BOS members were thoughtfully incorporated into the course and credit structure. During the discussion, some minor changes were suggested by the board members. The board thoroughly discussed and finalized the Course and credit structure for the courses of B.Sc and M.Sc.



Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
<b>First Year</b>						
F.Y.B.Sc	2019	I	ELE1101	Basic Circuit Elements and Theorems	Theory	02
F.Y.B.Sc	2019	I	ELE1102	Logic Gates and Arithmetic Circuits	Theory	02
F.Y.B.Sc	2019	I	ELE1203(Annual)	Practical	Practical	03
F.Y.B.Sc	2019	II	ELE1201	Semiconductor Devices	Theory	02
F.Y.B.Sc	2019	II	ELE1202	Digital Circuits And IC Technology	Theory	02
			Certificate Course			
<b>Second Year</b>						
S.Y.B.Sc	2019	III	ELE2301	Analog Circuit Design	Theory	03
S.Y.B.Sc	2019	III	ELE2302	Digital Circuit Design	Theory	03
S.Y.B.Sc	2019	III	ELE2303	Practical Course III	Practical	03
			Certificate Course	PCB Design		02
S.Y.B.Sc	2019	IV	ELE2401	Instrumentation	Theory	03
S.Y.B.Sc	2019	IV	ELE2402	Communication Electronics	Theory	03
S.Y.B.Sc	2019	IV	ELE2403	Practical Course III	Practical	03
			Certificate Course	Basic Instrumentation Design.		02
<b>Third Year</b>						
T.Y.B.Sc	2019	V	ELE3501	Advanced Digital System Design using Verilog	Theory	03
T.Y.B.Sc	2019	V	ELE3502	8051 Microcontroller	Theory	03
T.Y.B.Sc	2019	V	ELE3503	Analog Circuit Design and Applications of Linear ICs	Theory	03

T.Y.B.Sc	2019	V	ELE3504	Principles of Semiconductor Devices	Theory	03
T.Y.B.Sc	2019	V	ELE3505	Fundamentals of 'C' Programming	Theory	03
T.Y.B.Sc	2019	V	ELE3506	Optical Fiber Communication	Elective Theory	03
T.Y.B.Sc	2019	V	ELE3507	Practical Course I	Practical	03
T.Y.B.Sc	2019	V	ELE3508	Practical Course II	Practical	03
T.Y.B.Sc	2019	V	ELE3509	Practical Course III (Project)	Project	03
T.Y.B.Sc	2019	VI	ELE3601	Advanced Communication Systems	Theory	03
T.Y.B.Sc	2019	VI	ELE3602	Embedded Systems and Programming	Theory	03
T.Y.B.Sc	2019	VI	ELE3603	Power Devices and Circuits	Theory	03
T.Y.B.Sc	2019	VI	ELE3604	Foundation of Nanoelectronics	Theory	03
T.Y.B.Sc	2019	VI	ELE3605	Mathematical Methods and Circuit Simulation using MATLAB	Theory	03
T.Y.B.Sc	2019	VI	ELE3606	Industrial Automation	Elective Theory	03
T.Y.B.Sc	2019	VI	ELE3607	Practical Course I	Practical	03
T.Y.B.Sc	2019	VI	ELE3608	Practical Course II	Practical	03
T.Y.B.Sc	2019	VI	ELE3609	Practical Course III (Project)	Project	03

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
<b>First Year</b>						
M.Sc I	2019	I	ELE4101	Mathematical Methods in Electronics and Network Analysis	Theory	04
M.Sc I	2019	I	ELE4102	Integrated Circuit Analysis	Theory	04
M.Sc I	2019	I	ELE4103	Digital System Design	Theory	04
M.Sc I	2019	I	ELE4104	Advanced 'C' Programming	Theory	04
M.Sc I	2019	I	ELE4105	Practical Course -I	Practical	04
M.Sc I	2019	I	ELE4106	Practical Course - II	Practical	04
M.Sc I	2019	II	ELE4201	Applied Electromagnetics, Microwaves and Antennas	Theory	04
M.Sc I	2019	II	ELE4202	Instrumentation and Measurement techniques	Theory	04
M.Sc I	2019	II	ELE4203	Advanced Embedded System Design	Theory	04
M.Sc I	2019	II	ELE4204	Foundation of Semiconductor Devices	Theory	04
M.Sc I	2019	II	ELE4205	Practical Course -I	Practical	04
M.Sc I	2019	II	ELE4206	Practical Course - II	Practical	04
			Certificate Course	PCB design		02
<b>Second Year</b>						
M.Sc II	2019	III	ELE4301	Advanced Communication Electronics	Theory	04
M.Sc II	2019	III	ELE4302	Advanced Embedded Systems	Theory	04
M.Sc II	2019	III	ELE4303	Digital Signal Processing	Theory	04
M.Sc II	2019	III	ELE4304	Programmable Logic	Theory	04





				Controllers and Applications		
M.Sc II	2019	III	ELE4305	Practical Course –V	Practical	04
M.Sc II	2019	III	ELE4306	Practical Course –VI	Practical	04
			Certificate Course	Arduino System		02
			Skill Development Course	Robotics-1		02
M.Sc II	2019	IV	ELE4401	Control Systems	Theory	04
M.Sc II	2019	IV	ELE4402	Advanced Power Electronics	Theory	04
M.Sc II	2019	IV	ELE4403	Mechatronics and Robotics	Theory	04
M.Sc II	2019	IV	ELE4404	Wireless Sensor Networks	Theory	04
M.Sc II	2019	IV	ELE4405	Project	Project	04
M.Sc II	2019	IV	ELE4405	Project	Project	04
			Skill Development Course	Robotics-2		02

**Resolution No. 1:** The Course and credit structure for B.Sc. and M.Sc. (Electronics) has been unanimously approved by all members of the BOS.

**2. To prepare and approve curriculum of F.Y,B.Sc Semester-I & II and F. Y. B.Sc.(Comp. Science) Semester-I & II (2019 pattern) to be implemented from the academic year 2019-2020.**

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for Semester I & II of the F. Y. B.Sc. and F. Y. B.Sc. (Computer Science) program 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. The recommendations and valuable insights provided by the BOS members were thoughtfully incorporated into the curriculum



Dr.Helambe ,Dr.Hivarkar ,Dr.Sushma Kulkarni specifically recommended maintaining consistency in the sub-points of all chapters.

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.

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
FYB.Sc (Electronics)	2019	I	ELE1101	Basic Circuit Elements and Theorems	Theory	02
			ELE1102	Logic Gates and Arithmetic Circuits	Theory	02
		II	ELE1201	Semiconductor Devices	Theory	02
			ELE1202	Digital Circuits And IC Technology	Theory	02
		Annual	ELE1203	Practical	Practical	04

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
FYB.Sc (Comp. Sci.)	2019	I	CSEL1101	Circuit theory and network analysis.	Theory	02
		I	CSEL1102	Fundamental of digital electronics.	Theory	02
		II	CSEL1201	Semiconductor Devices and memories.	Theory	02
		II	CSEL1202	Sequential circuit design.	Theory	02
		Annual	CSEL1203	Practical	Practical	04

**Resolution No. 2:** The curriculum for F. Y. B.Sc. and F. Y. B.Sc. (Computer Science), has been unanimously approved by all members of the BOS.

**3. To prepare and approve curriculum of M.Sc.-I Semester-I & II (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.-I Semester I & II 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. A. S. Kothawale and Dr. S. N. Patil and presented the curriculum on a course-by-course basis, and the recommendations and valuable insights provided by the BOS members were thoughtfully incorporated into the curriculum. 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. Part-I,.

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.

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits	
M.Sc.-I	2019	I	ELE4101	Mathematical Methods in Electronics and Network Analysis	Theory	4	
			ELE4102	Integrated Circuit Analysis	Theory	4	
			ELE4103	Digital System Design	Theory	4	
			ELE4104	Advanced 'C' Programming	Theory	4	
			ELE4105	Practical Course -I	Practical	4	
			ELE4106	Practical Course -II	Practical	4	
	II			ELE4201	Applied Electromagnetics, Microwaves and Antennas	Theory	4
				ELE4202	Instrumentation and Measurement techniques	Theory	4
				ELE4203	Advanced Embedded System Design	Theory	4
				ELE4204	Foundation of Semiconductor Devices	Theory	4
				ELE4205	Practical Course -I	Practical	4
				ELE4206	Practical Course -II	Practical	4



**Resolution No. 3:** The curriculum for M.Sc.-I has been unanimously approved by all members of the BOS.

**4. 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., F.Y.B.Sc. (Computer Science) and M.Sc. Electronics.

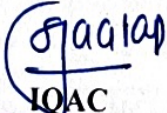
**Resolution No. 4:** Considered and Approved

**5. Any other matter with the permission of the chair.**

No any other issue discussed.

The meeting of BOS concluded with the vote of thanks by Prof. S. H. Gawade

  
Chairman  
Board of Studies

  
IOAC  
Coordinator  
Internal Quality Assurance Cell  
Tuljaram Chaturchand College of  
Arts, Science and Commerce,  
Baramati (Pune)-413102

  
Principal

