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.10

Date of Meeting: 16/03/2024

Venue: Department of Electronics

March, 2024

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

Date: 01/03/2024

Board of Studies Meeting

All members of the Board of Studies in Electronics are hereby informed that, as per Notice No. 471 dated 27/02/2024 issued by the college, our BOS meeting is organized on 16th March 2024 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 confirm the minutes of the previous meeting held on 21/10/2023

2. To prepare and approve course & credit structure of S. Y. B. Sc. & M. Sc. II as per NEP 2020 (2023 pattern) to be implemented from the academic year 2024-2025.

3. To prepare and approve curriculum of S. Y. B. Sc. and S. Y. B.Sc. (Comp. Science) Semester III (2023 pattern as per NEP) to be implemented from the academic year 2024-2025.

4. To prepare and approve curriculum of M.Sc. II. Semester III (2023 pattern as per NEP) to be implemented from the academic year 2024-2025.

5. To prepare and approve curriculum of T. Y. B. Sc. Semester V (2022 pattern) to be implemented from the academic year 2024-2025.

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

7. Any other matter with the permission of the chair.

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

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Chairman BOS in Electronics   Principal

Anekant Education Society's

Tuljaram Chaturchand College, Baramati

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Department of Electronics

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7. Any other matter with the permission of the chair.

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

Please acknowledge by email.

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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 16th March 2024.

Sr. No.	Name of Member	Designation
1.	**Dr. Deshpande J. D.** Head & Professor, Department of Electronics, T. C. College, Baramati.	Chairman
2.	**Dr. Mrs. Pawar A. M.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
3.	**Dr. Patil S. N.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
4.	**Dr. Kothawale A. S.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
5.	**Dr. Rupnawar P. D.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
6.	**Dr. Gawade S. A.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Internal Member
7.	**Mrs. Patil S. S.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Invitee
8.	**Mrs. Shinde P. K.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Invitee
9.	**Mrs. Walekar S. S.** Assistant Professor, Department of Electronics, T. C. College, Baramati	Invitee
10.	**Prof. Dr. S. R. Kumbhar** Head & Professor, Dept. of Electronics Wilingdon College, Sangli	External Member from other University (Online Attended)
11.	**Dr. Sadistap Shashikant** CSIR-CEERI, Pilani, Rajasthan	External Member from other University (Online Attended)
12.	**Dr. Mudassar Shaikh** Assistant Professor, Department of Electronics, New Arts, Commerce and Science College, Ahmednagar	External Member from other University (Online Attended)

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13.	**Mr. Patil Sharad V.** Senior Engineer, Whirlpool of India Ltd. Pune	Industry Expert (Online Attended)
14.	**Miss Yogita Salunkhe** Assistant Professor, Department of Electronics, Y. C. College, Satara	Meritorious Alumni (Online Attended)
15.	**Mr. Mayur Mahamuni** Department of Electronics, T. C. College, Baramati	PG Student
16.	**Miss. Gawade Shivanjali** Department of Electronics, T. C. College, Baramati	PG Student
17.	**Miss. Shedhe Dhanashree** Department of Electronics, T. C. College, Baramati	PG Student
18.	**Miss. Sapkal Malsi** Department of Electronics, T. C. College, Baramati	UG Student

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MINUTES OF THE MEETING

As per the Notice No. 471 dated 27/02/2024, issued by the college, the meeting of Board of Studies in Electronics was successfully held on 16th March 2024 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 Prof. 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 confirm the minutes of the BOS meeting held on 21st Oct. 2023.

Dr. J. D. Deshpande read the minutes of the BOS meeting held on 21st Oct. 2023 and put forward to the BOS members for the approval.

Resolution No. 1: The minutes of the previous Board of Studies meeting were approved and confirmed.

2. To prepare and approve course & credit structure of S. Y. B. Sc. & M. Sc. II as per NEP 2020 (2023 pattern) to be implemented from the academic year 2024-2025.

Resolution No. 2:

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Sem	Course Category	Course Code	Course Title	Theory / Practical	Credits
			S.Y.B.Sc. Course & credit structure as per NEP-2020 (2023 pattern)		
III	Major mandatory	ELE-201-MJM	Linear Integrated Circuits	T	2
	Major mandatory	ELE-202-MJM	Digital Circuit Design	T	2
	Major mandatory	ELE-203-MJM	Introduction to C programming	T	2
	Major mandatory	ELE-204-MJM	Electronics Practical III	**P**	2
	Minor	ELE-211-MN	Linear and Digital Integrated Circuits	T	2
	Minor	ELE-212-MN	Lab Course -1	**P**	2
	Open Elective	ELE-216-OE	Electronic Consumer Products	T	2
	Vocational Skill Course (VEC)	ELE-221-VSC	8 bit Embedded Microcontroller and Applications	T	2
	Ability Enhancement Course (AEC)	MAR/HIN/SAN -231-AEC	भाषिक उपयोजन व लेखन कौशल्ये हिंदी भाषा कौशल प्राथमिक संभाषणकौशल्यम्	T	2
	Field Project	ELE-235-FP	Field Project	**P**	2
	Co-curricular course (CC)	YOG/PES/CUL /NSS/NCC-239-CC	To be selected from basket	T	2
	Generic IKS	GEN-245-IKS	General IKS	T	2
			Total Credits (Semester-III)		**24**
IV	Major mandatory	ELE-251-MJM	Instrumentation Techniques	T	2
	Major mandatory	ELE-252-MJM	Fundamentals of Communication Systems	T	2
	Major mandatory	ELE-253-MJM	C Programming and Graphics	T	2
	Major mandatory	ELE-254-MJM	Electronics Practical-IV	**P**	2
	Minor	ELE-261-MN	Basics of Communication Principle	T	2
	Minor	ELE-262-MN	Lab Course II	**P**	2
	Open Elective	ELE-266-OE	Electronics Lab	P	2
	Skill Enhancement Course (SEC)	ELE-276-SEC	Circuit Simulator III	P	2
	Ability Enhancement Course (AEC)	MAR/HIN/SAN -281-AEC	लेखन निर्मिती व परीक्षण कौशल्ये हिंदी भाषा संप्रेषण कौशल प्रगत संभाषणकौशल्यम्	T	2
	Community Engagement Project	ELE-285-CEP	Community Engagement Project	**P**	2
	Co-curricular course (CC)	YOG/PES/CUL /NSS/NCC-289-CC	To be selected from basket	T	2
			Total Credits (Semester-IV)		**22**
			Cumulative Credits- Semester III + IV		**46**

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Department of Electronics   AES's T. C. College of ASC, Baramati, (Autonomous)

Class	Semester	Course Type	Course Code	Course Title	Theory/ Practical	No. of Credits
M. Sc. Electronics	III	Major (Mandatory)	ELE-601-MJM	Advanced Communication System	Theory	04
		Major (Mandatory)	ELE-602-MJM	Emerging Trends in Embedded Systems	Theory	04
		Major (Mandatory)	ELE-603-MJM	Practical Course –V	Practical	02
		Major (Mandatory)	ELE-604-MJM	Practical Course –VI	Practical	02
		Major (Elective)	ELE-611-MJE(A)	Fundamentals of Programmable Logic Controller (PLC) and Programming	Theory	02
			ELE-611-MJE(B)	IoT and Raspberry Pi Programming		
		Major (Elective)	ELE-612-MJE(A)	Programmable Logic Controller (PLC) -Lab	Practical	02
			ELE-612-MJE(B)	IoT and Raspberry pi-Lab		
		Research Project(RP)	ELE-621-RP	Project	Project	04
				Total Credits Semester III		**20**
M. Sc. Electronics	IV	Major (Mandatory)	ELE-651-MJM	Control System	Theory	04
		Major (Mandatory)	ELE-652-MJM	Fundamentals of Artificial Intelligence and ML	Theory	04
		Major (Mandatory)	ELE-653-MJM	Practical Course -VII	Practical	02
		Major (Elective)	ELE-661-MJE(A)	Wireless Sensor Network	Theory	02
			ELE-661-MJE(B)	Advanced Power Electronics		
		Major (Elective)	ELE-662-MJE(A)	Wireless Sensor Network -Lab	Practical	02
			ELE-662-MJE(B)	Power Electronics - Lab		
		Research Project(RP)	ELE-681-RP	Project+ Research Paper Publication	Project	06
				Total Credits Semester IV		**20**

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3. To prepare and approve curriculum of S. Y. B.Sc. and S. Y. B.Sc. (Computer Science), Semester III (2023 pattern as per NEP) to be implemented from the academic year 2024-2025.

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for Semester III of the S. Y. B.Sc. and S. Y. B.Sc. (Computer Science) program as per NEP 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. Pawar A. M. presented the curriculum on a course-by-course basis, 30:20 pattern of evaluation for all classes. The recommendations and valuable insights provided by the BOS members were thoughtfully incorporated into the curriculum. Dr. S. R. Kumbhar, Dr Sadistap Shashikant and Dr. Mudassar Shaikh 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	Sem.	Course Code	Course Title	Course Type	No. of Credits
S. Y. B. Sc. (Electronics)	2023	III	ELE-201-MJM	Linear Integrated Circuits	Theory	2
			ELE-202-MJM	Digital Circuit Design	Theory	2
			ELE-203-MJM	Introduction to C programming	Theory	2
			ELE-204-MJM	Electronics Practical III	Practical	2
			ELE-211-MN	Linear and Digital Integrated Circuits	Theory	2
			ELE-212-MN	Lab Course -1	Practical	2
			ELE-216-OE	Electronic Consumer Products	Theory	2
			ELE-221-VSC	8 bit Embedded Microcontroller and Applications	Theory	2
			ELE-235-FP	Field Project	Project	2

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Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
S.Y.B.Sc. (Comp. Sci.)	2023	III	COS-211-MN (C)	Digital Logic Design	Theory	02
S.Y.B.Sc. (Comp. Sci.)	2023	III	COS-212-MN (C)	Electronics Practical II	Practical	02

Resolution No. 3: The curriculum for S. Y. B.Sc. and S. Y. B.Sc. (Computer Science), Semester III (2023 pattern as per NEP) has been unanimously approved by all members of the BOS.

4. To prepare and approve curriculum of M.Sc.-II Semester III (2023 pattern as per NEP) to be implemented from the academic year 2024-2025.

The Board of Studies (+BOS) members meticulously designed and crafted the curriculum for M.Sc.-II Semester III (2023 pattern as per NEP) 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. S. N. Patil 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-II, Semester-III. 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.

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Class	Semester	Course Type	Course Code	Course Title	Theory/ Practical	No. of Credits
M. Sc. Electronics	III	Major (Mandatory)	ELE-601-MJM	Advanced Communication System	Theory	04
		Major (Mandatory)	ELE-602-MJM	Emerging Trends in Embedded Systems	Theory	04
		Major (Mandatory)	ELE-603-MJM	Practical Course –V	Practical	02
		Major (Mandatory)	ELE-604-MJM	Practical Course –VI	Practical	02
		Major (Elective)	ELE-611-MJE(A)	Fundamentals of Programmable Logic Controller (PLC) and Programming	Theory	02
			ELE-611-MJE(B)	IoT and Raspberry Pi Programming		
		Major (Elective)	ELE-612-MJE(A)	Programmable Logic Controller (PLC) -Lab	Practical	02
			ELE-612-MJE(B)	IoT and Raspberry pi-Lab		
		Research Project(RP)	ELE-621-RP	Project	Project	04
					Total Credits Semester III	**20**

Resolution No. 4: The curriculum for M.Sc.-II Semester III (2023 pattern as per NEP) has been unanimously approved by all members of the BOS.

5. To prepare and approve curriculum of T. Y. B. Sc. Semester V (2022 pattern) to be implemented from the academic year 2023-2024.

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for T. Y. B. Sc. Semester V (2022 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. Deshpande J. D. presented the curriculum on a course-by-course basis, 60:40 pattern of evaluation for all papers. Dr. S. R. Kumbhar, Dr Sadistap Shashikant, Sharad Patil, Dr. Mudassar Shaikh and Miss. Yogita Salunkhe 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.

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Class	Pattern	Sem.	Course Code	Course Title	Course Type	No. of Credits
T.Y.B.Sc	2022	V	ELE351	Advanced Digital Design with Verilog HDL	Theory	03
T.Y.B.Sc	2022	V	ELE352	8051 Microcontroller	Theory	03
T.Y.B.Sc	2022	V	ELE353	Analog Circuit Design and Applications	Theory	03
T.Y.B.Sc	2022	V	ELE354	Foundation of Semiconductor Devices	Theory	03
T.Y.B.Sc	2022	V	ELE355	Programming in C	Theory	03
T.Y.B.Sc	2022	V	ELE356	Fibre Optic Communication and Techniques	Theory	03
T.Y.B.Sc	2022	V	ELE357	Practical Course I	Practical	02
T.Y.B.Sc	2022	V	ELE358	Practical Course II	Practical	02
T.Y.B.Sc	2022	V	ELE359	Project	Project	02

Resolution No. 5: The curriculum for T. Y. B. Sc. Semester V (2022 pattern) has been unanimously approved by all members of the BOS.

6. 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. 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 Semester III of S. Y. B. Sc., S. Y. B.Sc. (Comp. Science), M.Sc. II. (2023 pattern as per NEP) and T. Y. B. Sc., Semester V (2022 pattern).

Resolution No. 6: Considered and Approved

The meeting of BOS concluded with the vote of thanks by Dr. Mrs. Pawar A. M.

Chairman
Board of Studies

IQAC
Coordinator

Principal

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Department of Electronics   AES's T. C. College of ASC, Baramati, (Autonomous)