



Anekant Education Society's

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

**DEPARTMENT OF
ENVIRONMENTAL SCIENCE**

(Faculty of Science)

Minutes of Board of Studies Meeting No.11

Date of Meeting: 20/06/2024

Venue: Department of Environmental Science

June, 2024

Anekant Education Society's
Tuljaram Chaturchand College, Baramati

DEPARTMENT OF ENVIRONMENTAL SCIENCE

NOTICE

Date: 18/06/2024

Board of Studies Meeting

All members of the Board of Studies in Environmental Science are hereby informed that, our BOS meeting is organized on 20th June 2024 at 12:00 pm. in the staff room of Department of Environmental Science and in Online mode. As esteemed members of the board, your presence and input during the meeting would be greatly appreciated.

The agenda for the meeting is as follows:

1. To confirm the minutes of the previous meeting held on 11th March 2024
2. To design and approve course and credit structure for the B.Sc. degree programme in Environmental Science in accordance with NEP-2.0 (2024 pattern as per NEP-2020).
3. To prepare and approve curriculum of F.Y.B.Sc. Semester-I and II (2024 NEP pattern) to be implemented from the academic year 2024-2025.
4. To prepare curriculum of Value Education Courses as per UGC guidelines (June, 2023) for Curriculum Framework for Environment Education at UG level.
5. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
6. Any other issue with the permission of the chair.

Therefore, I kindly request you to attend the aforementioned meeting and invite you to provide your valuable inputs for designing the curriculum in accordance with the NEP 2020 guidelines.



Chairman,

BOS in Environmental Science



Principal

Anekant Education Society's

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

Department of Environmental Science

AGENDA OF THE MEETING

The agenda of the meeting included the following subjects:

1. To confirm the minutes of the previous meeting held on 11th March 2024
2. To design and approve course and credit structure for the B.Sc. degree programme in Environmental Science in accordance with NEP-2.0 (2024 pattern as per NEP-2020).
3. To prepare and approve curriculum of F.Y.B.Sc. Semester-I and II (2024 NEP pattern) to be implemented from the academic year 2024-2025.
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5. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
6. Any other issue 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 (Environmental Science) meeting through online/offline mode held on 9th June, 2023.

Sr.No.	Name of Member	Designation
1.	Ms. Surashri S. Sonawane Head & Assistant Professor, Department of Environmental Science, T. C. College, Baramati.	Chairman
2.	Prof. Dr. Ajit Telave Associate Professor , Department of Botany, T. C. College, Baramati	Internal Member
3.	Dr. Vitthal Nale Assistant Professor, Department of Zoology, T. C. College, Baramati	Internal Member
4.	Dr. Yogesh Indulkar Assistant Professor, Department of Chemistry, T. C. College, Baramati	Internal Member
5.	Prof. Dr. Arun Magar Head & Associate Professor, Department of Geography , T. C. College, Baramati	Internal Member
6.	Prof. Dr. Neeta Dhane Associate Professor, Department of Statistics, T. C. College, Baramati	Internal Member
7.	Mr. Abhijit More Assistant Professor, Department of Environmental Science, T. C. College, Baramati	Internal Member
8.	Ms. Neeta Sarode Assistant Professor, Department of Environmental Science, T. C. College, Baramati	Internal Member
9.	Dr. Rupali Gaikwad Department of Environmental Science, Fergusson College, Pune, 411004.	Expert from SPPU
10.	Dr. Rachana Ingavale SIBER, Kolhapur, 416004	Expert from other University
11.	Dr. Asawari Jadhav Department of Environmental Science, Shivaji University, Kolhapur, 416004	Expert from other University
12.	Dr. Ganesh Kadam Laboratory Incharge & Dy Quality Manager Pune, Maharashtra, India GreenSolution Enviro and Laboratories Pvt Ltd	Industry Expert
13.	Ms. Sakshi Upadhyay	UG Student
14.	Mr. Pradip Shikare	UG Student

MINUTES OF THE MEETING

As per the meeting of Board of Studies in Environmental Science was successfully held on 20th June, 2024 at 12:00 pm in the Department of Environmental 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 Ms. S. S. Sonawane, Chairman of the Board of Studies in Environmental Science, 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 11th March 2024.

Ms. S. S. Sonawane read the minutes of the BOS meeting held on 11th March 2024 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 design and approve course and credit structure for the B.Sc. degree programme in Environmental Science in accordance with NEP-2.0 (2024 pattern as per NEP-2020).

The Board of Studies (BOS) members meticulously discussed the new course and credit structure for the B.Sc. degree program in Environmental Science. They took into consideration the Government of Maharashtra circular dated March 13, 2024, which introduced three major courses in the first year, and the Circular of SPPU, Pune dated May 2, 2024, regarding credit distribution structures for humanities. After thorough discussion, the following credit distribution structure was finalized.

Resolution No. 2: The credit distribution structure for B.Sc. degree programme in Environmental Science (2024 pattern) has been unanimously approved by all members of the BOS.

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Credit Distribution Structure for Three/Four Year Honours/Honours with Research Degree Programme
With Multiple Entry and Exit options as per National Education Policy (2024 Pattern as per NEP-2020)

Level/ Difficulty	Sem	Subject DSC-1	Subject DSC-2	Subject DSC-3	GE/OE	SEC	IKS	AEC	VEC	CC	Total			
4.5/100	I	2(T)+2(P)	2(T)+2(P)	2(T)+ 2(P)	2(T)	2 (T/P)	2(T) (Generic)	2(T)	2(T)	--	22			
	II	2(T)+2(P)	2(T)+2(P)	2(T)+2(P)	2(P)	2 (T/P)	--	2(T)	2(T)	2(T)	22			
Exit option: Award of UG Certificate in Major with 44 credits and an additional 4 credits core NSQF course/Internship OR Continue with Major and Minor Continue option: Student will select one subject among the (subject 1, subject 2 and subject 3) as major and other as minor and third subject will be dropped.														
Level/ Difficulty	Sem	Credits Related to Major				Minor	--	GE/OE	SEC	IKS	AEC	VEC	CC	Total
		Major Core	Major Elective	VSC	FP/OJT/CE P/RP									
5.0/200	III	4(T)+2(P)	--	2 (T/P)	2(FP)	2(T)+2(P)	--	2(T)	--	2(T)	--	2(T)	22	
	IV	4(T)+2(P)	--	2 (T/P)	2(CEP)	2(T)+2(P)	--	2(P)	2 (T/P)	--	2(T)	--	2(T)	22
Exit option: Award of UG Diploma in Major and Minor with 88 credits and an additional 4credits core NSQF course/Internship OR Continue with Major and Minor														
5.5/300	V	8(T)+4(P)	2(T)+2(P)	2 (T/P)	2(FP/CEP)	2(T)	--	--	--	--	--	--	22	
	VI	8(T)+4(P)	2(T)+2(P)	2 (T/P)	4 (OJT)	--	--	--	--	--	--	--	22	
Total 3Years		44	8	8	10	18	8	8	6	4	8	4	6	132
Exit option: Award of UG Degree in Major with 132 credits OR Continue with Major and Minor														
6.0/400	VII	6(T)+4(P)	2(T)+2 (T/P)	--	4(RP)	4(RM)(T)	--	--	--	--	--	--	22	
	VIII	6(T)+4(P)	2(T)+2 (T/P)	--	6(RP)	--	--	--	--	--	--	--	22	
Total 4Years		64	16	8	22	22	8	8	6	4	8	4	6	176
Four Year UG Honours with Research Degree in Major and Minor with 176 credits														
6.0/400	VII	10(T)+4(P)	2(T)+2 (T/P)	--	--	4(RM) (T)	--	--	--	--	--	--	22	
	VIII	10(T)+4(P)	2(T)+2 (T/P)	--	4 (OJT)	--	--	--	--	--	--	--	22	
Total 4Years		72	16	8	14	22	8	8	6	4	8	4	6	176
Four Year UG Honours Degree in Major and Minor with 176 credits														
T = Theory P = Practical DSC = Discipline Specific Course OE = Open Elective SEC = Skill Enhancement Course IKS = Indian Knowledge System AEC = Ability Enhancement Course VEC = Value Education Course CC = Co-curricular Course VSC= Vocational Skill Course OJT=														

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On Job Training CEP= Community Engagement Project FP= Field Project RP= Research Project

3. To prepare and approve curriculum of F.Y.B.Sc. Semester-I and II (2024 NEP pattern) to be implemented from the academic year 2024-2025.

The Board of Studies (BOS) members meticulously designed and crafted the curriculum for Semester I and II of the F.Y.B.Sc. 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, Mr. Abhijit More 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. 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
F.Y.B.Sc.	2024	I	ENV-101-GEN	Basics of Environmental Science	Theory	02
F.Y.B.Sc	2024	I	ENV-102-GEN	Environment Science Practical-I	Practical	02
F.Y.B.Sc	2024	I	ENV-103-OE	Disasters and their Management	Theory	02
F.Y.B.Sc	2024	I	ENV-104-SEC	Introduction to lab instruments	Practical	02
F.Y.B.Sc	2024	I	ENV-105-VEC	Environmental Education	Theory	02
F.Y.B.Sc	2024	II	ENV-151-GEN	Fundamentals of Environmental Biology	Theory	02
F.Y.B.Sc	2024	II	ENV-152-GEN	Environment Science Practical-II	Practical	02
F.Y.B.Sc	2024	II	ENV-153-OE	Environmental Management and Safety	Practical	02
F.Y.B.Sc	2024	II	ENV-154-SEC	Sustainable Agricultural Practices	Practical	02

F.Y.B.Sc	2024	II	COS-155-VEC	Digital and technological solutions	Theory	02
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Resolution No. 3: The curriculum for F.Y.B.Sc. Semester I and II (2024 pattern) has been unanimously approved by all members of the BOS.

4. To prepare curriculum of Value Education Courses as per UGC guidelines (June, 2023) for Curriculum Framework for Environment Education at UG level.

The NEP-2020 emphasizes the importance of integrating environmental education into curricula and fostering environmental awareness. It suggests considering environmental education courses as value education courses. In response, the UGC has issued guidelines for the Curriculum Framework for Environmental Education at the undergraduate level. During the BOS meeting, members discussed the UGC guidelines and decided to prepare the curriculum for VEC courses based on these guidelines. Consequently, the syllabi for two value education courses have been prepared: 'ENV-105-VEC: Environmental Education'.

Resolution No. 4: The curriculum of VEC course as per UGC guidelines 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. Environmental Science.

Resolution No. 4: Considered and Approved

6. Any other issues with the permission of the chair.

There were no other issues to discuss, so the BOS meeting concluded with a vote of thanks by Ms. Surashri Sonawane.



**Chairman
Board of Studies**



**IQAC
Coordinator**



Principal