

VPM's B. N. Bandodkar College of Science (Autonomous)
Department of Chemistry
Board of Studies Meeting

Date: Monday, January 18 , 2025 **Time :**2.0PM **Mode:** Online/ Offline/Hybrid modes

Agenda: 1. Course code & Title in F.Y./S.Y./M.Sc.- I as per requirement by software
2. Modification Minor credit for S.Y.& T.Y 2025 – 26 (Credit from work)
3 T.Y.B.Sc. Syllabus designed under the NEP framework.

Link : <https://meet.google.com/xsc-xfjq-vau>

Minutes of the Meeting:

1. Dr. Goswami-Giri Anita Chairman of BOS, welcomed all Board of Studies (BOS) members and department staff. She read previous minutes of the meeting which was held on **27/04/2024** which was unanimously approved
2. Madam Anita proposed and provided an overview of the NEP framework for SY and T.Y. courses. Along with F.Y.B.Sc, S.Y. B.Sc, MSC-I and II course code and Tile as per requirement by software and also for baskets. For F.Y.B.Sc. to M.Sc. nine-digit course code is change to ten-digit course code. eg. 23BUCH1T01 All BoS members unanimously approved.
3. The academic 2024-25 S.Y.B.Sc. batch having credit 02 for Minor theory in SEM – III & IV and the same batch will be having credit 02 Minor theory for T.Y.BSc.-2024-25 in SEM V. after discussion professor Shendgesir accepted the change in credit framework seconded by Prf. Gayatri Barbde. (See details in table 1)
4. However, the academic batch F.Y.B.Sc. (Level 4.5) 2024-25 in S.Y.B.Sc 2025-26 (Level 5.0) will be learning Minor courses for credit 4 = (2T+2P) Minor Theory paper for credit 02 & Minor practical credit 02 in both semester III and IV. In continuation in level 5.5 this batch will be learning only Major component courses in T.Y.B.Sc in 2026-27.
5. T.Y.B.Sc. proposed syllabus is discussed. (See details in table 2)
6. Chem draw certificate course was designed which was to inserted in the main vertical

Proposed Structure and Credit Distribution

Table 1. Modification Minor credits for S.Y.B.Sc (Level 5.0) for the batches 2025-26 T.Y.B.Sc for the batches 2025-26 and 2026-27,

Proposed Structure and Credit Distribution for level 5.0 (S.Y.B.Sc) for the year of 2025-26													
		Faculty – DSC		Any Faculty	Vocational & Skill Enhancement Courses (VSC),SEC, (VSEC) CREDITS = 02		<u>Ability Enhancement Courses (AEC) / Indian Knowledge System (IKS)</u>	Field Project/ Apprenticeship/ CommunityEngagement & Services			Credit	Cumulative Credits	
		Major (6T+4P)	Minor (2T+2P)	GE & OE (2T)				CREDITS = 04					
		CREDITS = 10	CREDITS = 02	CREDITS = 02	SEC or	VSC	<u>AEC</u> = CREDITS =02	FP CREDITS =02		CC CREDITS=02			
5	III	10	04	02	02	02	02	-		02	22	44	
	IV	10	04	02	02	02	02	-		02	22		
Exit option: Award of UG Certificate in Major with 80-88 credits and an additional 4 credits core NSQF courses / Internship or Continue with Major and Minor.													
Transforming S.Y. BSc. Curriculum into NEP 2020 Structure provided by Government of Maharashtra.													
Cum cr.		10*2 = 20	4*4 = 08	2*2 = 04	2*2= 04		2*2 = 04		00	2*2 = 04		44	

Level	SEM.	Faculty - DSC							Any Faculty	Vocational & Skill Enhancement Courses (VSC) SEC (VSEC)	Ability Enhancement Courses (AEC) /Indian Knowledge System (IKS)			Field Project / Apprenticeship/ Community Engagement & Services		Credit	Cumulative Credits
		Subject					Subject		Subject								
		Major (6T+4P)					Minor		GE & OE								
		Course- I	Course-II	Course-III	Practical Course-I	Practical Course-II	Course-I	Practical Course-I	Course-I		AEC	VEC	IKS	FP	CC		
Level 5.0	III.	02 (2T)	02 (2T)	02 (2T)	02 (2P)	02 (2P)	02 (2T)	02 (2P)	02 (2T)	02 (1T+1P)	02 (2T)	-	-	-	02 (1T+1P)	22	44
	IV.	02 (2T)	02 (2T)	02 (2T)	02 (2P)	02 (2P)	02 (2T)	02 (2P)	02 (2T)	02 (1T+1P)	02 (2T)	-	-	-	02 (1T+1P)	22	

Proposed Structure and Credit Distribution for level 5.5 (T.Y.B.Sc)for the year of 2025-26												
Level	SEM.	Faculty – DSC			Any Faculty	Vocational & Skill Enhancement Courses (VSC)	Field Project/ Apprenticeship/ Community Engagement& Services		Credit	Cumulative Credits		
		Major	Elective	Minor			GE & OE	CREDITS = 02			Field Project / OJTOJT Apprenticeship/ On the job training	
		Credits	Credits	credits			CREDITS	VSC				
5.5	V.	14	02	02	-	02	02	-	22	44		
	VI.	14	04	-	-	02	02	-	22			
Exit option: Award of UG Certificate in Major with 80-88 credits and an additional 4 credits core NSQF courses / Internship or Continue with Major and Minor.												
Transforming S.Y. BSc. Curriculum into NEP 2020 Structure provided by Government of Maharashtra.												
Cum cr.		14*2 = 28	02+04 = 06	02	-	2*2= 04	2*2 = 04	-	44	44		

Level	SEM	Faculty – Science (10T 8P) = DSC (8 T+ 6P) + DSE – SEM V (1T+1P) credits 2 DSE – SEM VI (2T+2P) credits 4									Minor (Credit 2) SEM V (2T) only	Vocational & Skill Enhancement Courses (VSC)	Field Project	Credit	Cumulative Credits
		Major							Major DSE		Syllabus directly relevant to the employability /Entrepreneur ship				
		Theory Course – I	Theory Course –II	Theory Course –III	Theory Course–IV	Practical Course – I	Practical Course – II	Practical Course – III	Theory Course – I	Practical Course – II					
Level 5.5	V	02 (2T)	02 (2T)	02 (2T)	0 2 (2T)	02 (2P)	02 (2P)	02 (2P)	(1T)	(1P)	(2T)	02 (1T +1P)	02	22	44
	VI	02 (2T)	02 (2T)	02 (2T)	0 2 (2T)	02 (2P)	02 (2P)	02 (2P)	02 (2T)	02 2P)	-	02 (1T +1P)	02	22	
	Cum cr.	14*2 = 28							2+4 = 06		02	2*2 = 04	2*2 = 04	44	

Proposed Structure and Credit Distribution for level 5.5 for the year of 2026-27

Level	SEM.	Faculty – DSC			Any Faculty	Vocational & Skill Enhancement Courses (VSC)	Field Project/ Apprenticeship/ Community Engagement& Services		Credit	Cumulative Credits		
		Major	Elective	Minor			GE & OE	CREDITS = 02			Field Project / OJTOJT Apprenticeship/ On the job training	
		Credits	Credits	credits			CREDITS	VSC				
5.5	V.	14	04	-	-	02	02	-	22	44		
	VI.	14	04	-	-	02	02	-	22			
Exit option: Award of UG Certificate in Major with 80-88 credits and an additional 4 credits core NSQF courses / Internship or Continue with Major and Minor.												
Transforming S.Y. BSc. Curriculum into NEP 2020 Structure provided by Government of Maharashtra.												
Cum cr.		14*2 = 28	02+04 = 06	02	-	2*2= 04	2*2 = 04	-	44	44		

Level	SEM	Faculty – Science (10T 8P) = DSC (8 T+ 6P) + DSE – SEM V (1T+1P) credits 2 DSE – SEM VI (2T+2P) credits 4									Vocational & Skill Enhancement Courses (VSC)	Field Project	Credit	Cumulative Credits
		Major							Major DSE					
		Theory Course– I	Theory Course – II	Theory Course –III	Theory Course– IV	Practical Course – I	Practical Course – II	Practical Course – III	Theory Course – I	Practical Course – II				
Level 5.5	V	02 (2T)	02 (2T)	02 (2T)	0 2 (2T)	02 (2P)	02 (2P)	02 (2P)	02 (2T)	02 (2P)	02 (1T + 1P)	02	22	44
	VI	02 (2T)	02 (2T)	02 (2T)	0 2 (2T)	02 (2P)	02 (2P)	02 (2P)	02 (2T)	02 (2P)	02 (1T + 1P)	02	22	
	Cum cr.	14*2 = 28							4+4 = 08		2*2 = 04	2*2 = 04	44	

VPM's B. N. Bandodkar College of Science (Autonomous), Thane
T. Y. B. Sc. [Level 5.5] (Chemistry)
Structure of Programme

Semester V			
Course Code	Course Title	No. of lectures In hrs.	Credits
MAJOR COURSES			
25BUCH5T01	Physical Chemistry-I	30	2
25BUCH5T02	Inorganic Chemistry-I	30	2
25BUCH5T03	Organic Chemistry-I	30	2
25BUCH5T04	Analytical Chemistry-I	30	2
25BUCH5P01	Practicals based on 25BUCH5T01 and 25BUCH5T04	60	2
25BUCH5P02	Practicals based on 25BUCH5T02 and 25BUCH5T04	60	2
25BUCH5P03	Practicals based on 25BUCH5T03 and 25BUCH5T04	60	2
Total		300	14
<p style="text-align: center;">Semester V Discipline Specific Elective (DSE) in Chemistry (1T + 1P) Note: Students will select from subject from - 25BUCH5T05 (Credit 1) & 25BUCH5PO4 (Credit 1) OR 25BUCH5T06 (Credit 1) and 25BUCH5PO5 (Credit 1)</p>			
Course Code	Course Title	No. of lectures In hrs.	Credits
25BUCH5T05	Industrial Chemistry	15	1
25BUCH5P04	Practicals based on 25BUCH5T05	30	1
OR			
25BUCH5T06	Environmental Chemistry	15	1
25BUCH5P05	Practicals based on 25BUCH5T06	30	1
Total		45	2
Semester V: Minor			
25BUCH5T07	Dyes Chemistry	30	2
Total		30	2
<p style="text-align: center;">Semester V Vocational and Skill Enhancement Course (VSEC) (1T + 1P)</p>			
25BU5VSC02	Business skills for chemist	15	1
	Practical	30	1

	Total	45	2
Semester V			
25BUCH5P06	Field Project / On Job Training/ Industrial Visit	60	2
	Total	60	2
		480	22
Semester VI			
Course Code	Course Title	No. of lectures In hrs.	Credits
MAJOR COURSES			
25BUCH6T01	Physical Chemistry-II	30	2
25BUCH6T02	Inorganic Chemistry-II	30	2
25BUCH6T03	Organic Chemistry-II	30	2
25BUCH6T04	Analytical Chemistry-II	30	2
25BUCH6P01	Practicals based on 25BUCH6T01 and 25BUCH6T04	60	2
25BUCH6P02	Practicals based on 25BUCH6T02 and 25BUCH6T04	60	2
25BUCH6P03	Practicals based on 25BUCH6T03 and 25BUCH6T04	60	2
	Total	300	14
Semester VI Discipline Specific Elective (DSE) in Chemistry (2T + 2P) Note: Students will select one subject from- 25BUCH6T05 (Credit 2) & 25BUCH6PO4 (Credit 2) OR 25BUCH6T06 (Credit 2) and 25BUCH6PO5 (Credit 2)			
Course Code	Course Title	No. of lectures In hrs.	Credits
25BUCH6T05	Pharmaceuticals Chemistry	30	2
25BUCH6P04	Practicals based on 25BUCH6T05	60	2
OR			
25BUCH6T06	Chemistry of soil and dairy.	30	2
25BUCH6P05	Practicals based on 25BUCH6T06	60	2
	Total	90	4

Semester VI			
Vocational and Skill Enhancement Course (VSEC) (1T + 1P)			
Course Code	Course Title	No. of lectures In hrs.	Credits
25BU6VSC02	Laboratory Safety	15	1
	Practicals	30	1
	Total	45	2
Semester VI			
Course Code	Course Title	No. of lectures In hrs.	Credits
25BUCH6P06	Field Project / On Job Training/ Industrial Visit	60	2
	Total	60	2
Total lectures and Credits		495	22

Approval:

All proposed syllabi were unanimously approved.

Conclusion:

The meeting concluded at 4:30 PM with acknowledgment to all members.