

VPM's B.N.Bandodkar College of Science (Autonomous), Thane									
AQAR 2021-2022									
Criterion I – Curricular Aspects									
1.3 Curriculum Enrichment									
1.3.1 Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum:									
Sr. No	Programme	Programme Specilization	Course Name	Course Code	Activities - Syllabus content with a direct bearing on Professional Ethics (PE), Gender (G), Human Values (HV) & Environment-Sustainability (ES)				Curriculum of the Course
					PE	G	HV	ES	
1	Bachelor of Science (B.Sc.)	Biochemistry	Environmental Science	USBCH502	NO	NO	NO	YES	https://old.mvu.ac.in/wp-content/uploads/2016/06/4.12proposed-CBCS-syllabus-of-T.Y.B.Sc.-Biochem-6-units-20-05-19.pdf
2		Biotechnology	Basic Biotechnology II: Environmental Biology	BNBUSBT1T6	NO	NO	NO	YES	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc._Biotechnology_Syllabus.pdf
3			Foundation Course I : Societal Awareness	BNBUSBT1T7	YES	YES	YES	NO	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc._Biotechnology_Syllabus.pdf
4			FC II : Globalization, Ecology and Sustainable Development	BNBUSBT2T7	NO	YES	YES	YES	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc._Biotechnology_Syllabus.pdf
5			Basic Life Science II: Genetics and Evolution	BNBUSBT2T4	NO	NO	NO	YES	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc._Biotechnology_Syllabus.pdf



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6		Environmental biotechnology - Environmental pollution, Global environmental problems and Issues, Bioremediation	USBT404	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.234-S.Y.B.Sc.-Biotechnology.pdf
7		Environmental biotechnology- Renewable sources of energy, Industrial effluent treatment, Waste water treatment, Hazardous waste management.	USBT604	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.38-TYBSC-B iotech-revised-2018-19.pdf
8		Biosafety	USACBT501	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.38-TYBSC-B iotech-revised-2018-19.pdf
9		Agri-biotechnology - Biopesticides & Biofertilizers	USACBT601 Unit I & IV	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.38-TYBSC-B iotech-revised-2018-19.pdf
10	Botany	Environmental Botany	USBO503 Unit III	NO	NO	NO	YES	http://old.mu.ac.in/wp-content/uploads/2016/06/4.25-TYBSC-B QTANY-SYLLABUS-FOR-2018-19-1.pdf
11		Plant Geography	USBO602 Unit IV	NO	NO	NO	YES	http://old.mu.ac.in/wp-content/uploads/2016/06/4.25-TYBSC-B QTANY-SYLLABUS-FOR-2018-19-1.pdf
12	Chemistry	Uses and Environmental Chemistry of volatile Oxides and oxo-acids	USCH402 Unit II	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.207-S.Y.B.Sc.-Chemistry-Sem-III-IV1.pdf



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	Agrochemicals, Green Chemistry & Synthesis	USCH503 Unit II & III	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.41-T.Y-B.Sc.-Organic-Chemistry-6-Units-Sem-V1.pdf
	Renewable Energy Sources	USCH601 Unit III	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.13-T.Y-B.Sc.-Chemistry.pdf
	Foundation Course						
	Foundation Course Unit I, II & III	BNBUSFC1T1	NO	YES	YES	NO	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc_FC_Syllabus.pdf
	Foundation Unit I and II	BNBUSFC1T2	NO	YES	YES	NO	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc_FC_Syllabus.pdf
	Human Science						
	Human Values & Social Institutions of Society	USHSC104 Unit III	YES	NO	YES	NO	https://archive.mu.ac.in/syllabus/Final%20FYBSC%20Human%20Sciences%20%202015-2016.pdf
	Environmental issues & Introduction to Environmental laws	USHSC305 Unit III	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/Final%20FYBSC%20Human%20Sciences%20%202015-2016.pdf
	Sex, Fertility & Psychological issues	USHSC402	NO	YES	NO	NO	https://archive.mu.ac.in/syllabus/Final%20FYBSC%20Human%20Sciences%20%202015-2016.pdf
	Sociology - Work culture, Work ethics & Social issues	USHSC501	YES	NO	YES	NO	https://old.mu.ac.in/wp-content/uploads/2016/06/4.8-TYBSC_Human-Sciences.pdf
	Constitution, Fundamental Rights & Laws	USHSC502	YES	NO	YES	NO	https://old.mu.ac.in/wp-content/uploads/2016/06/4.8-TYBSC_Human-Sciences.pdf



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	Environmental Science	USHSC602	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.8-TYBSC_Human-Sciences.pdf
Interdisciplinary Science	Barriers in communication, Business skills, softskills and communication,	USIDSSPD01	YES	NO	NO	NO	https://archive.mu.ac.in/syllabus/Soft%20Skills%20and%20Personality%20Development%20Interdisciplinary.pdf
	Individual interactive skills, leadership skills, negotiation skills	USIDSSPD02	YES	NO	YES	NO	https://archive.mu.ac.in/syllabus/Soft%20Skills%20and%20Personality%20Development%20Interdisciplinary.pdf
	Importance and functioning of office, definition of office management, duties	USIDOM01	YES	NO	NO	NO	https://archive.mu.ac.in/syllabus/Office%20Organization%20and%20Management%20Interdisciplinary.pdf
	Record management, office equipment and machines, office automation practices	USIDOM02	YES	NO	NO	NO	https://archive.mu.ac.in/syllabus/Office%20Organization%20and%20Management%20Interdisciplinary.pdf
Microbiology	Fundamentals of Microbiology	BNBUSMB 1T1 Unit I	NO	NO	NO	YES	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc_Microbiology_Syllabus.pdf
	Environmental Microbiology - air microbiology, fresh	USMB 302 Unit I, II, III	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.217-S.Y.B.Sc.-Microbiology.pdf
	Bioprocess Technology: Intellectual property rights	USMB 604 Unit III, 3.5	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.51-MICROBIOLOGY-Final-Revised-TY-Syllabus.pdf
N.C.C	Environment awareness & Conservation	BNBUNCC1T1 Unit II	NO	NO	NO	YES	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc_NCC_Syllabus.pdf



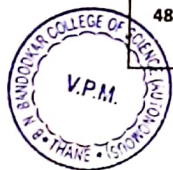
20/4

31	Master of Science (M.Sc.)	N.S.S.	NSS Studies	BNBUSNSS1T 1	NO	YES	YES	NO	https://www.vpmthane.org/BNB/Syllabus/F.Y.B.Sc_NSS_Syllabus.pdf
32			Value system and Gender sensitivity, Environment and Environment	NSS103	NO	YES	YES	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.60-National-Service-Scheme-Sem-I-to-IV.pdf
33		Zoology	Pollution & its effect on organisms	USZOE403A Unit III	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.31-Final-Copy-S-Y-B-Sc-Zoology-Syllabus.pdf
34			Environment Management, Wildlife management, Bioprospecting &	USZO604	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.32-TYBScSem-V-VI-Syllabus-Final-9th-April-2018-26-April-2018-1-4.pdf
35		Chemistry	Environmental Chemistry	PSCH202 Unit 3	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.208-M.-Sc.-Chemistry-Part-I-Sem-I-II1.pdf
36		Environment Science	Ecology & Ecosystem	PSEVS101	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
37			Biodiversity	PSEVS102	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
38			Environmental & Natural Resources	PSEVS103	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
39			Environmental Pollution	PSEVS104	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf



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Environmental Monitoring & Assessment	PSEVS201	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
Pollution Control Technology	PSEVS202	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
Green Technology	PSEVS203	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
Environmental policies & Regulations	PSEVS204	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.121%20M.Sc.%20Environment%20Sci..pdf
Advanced Pollution Control Technology	PSEVS301	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
Instrumentation and Biostatistics	PSEVS302	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
Environmental Toxicology	PSEVS303	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
Industrial Hygiene and Chemical Safety	PSEVS304	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
Ecotechnology	PSEVS401	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf



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20/11/20

Biodiversity and Wildlife Conservation and Management	Environmental Biotechnology and Nanotechnology	PSEVS402	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
	Sustainable Management	PSEVS403	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
	Environmental Management	PSEVS404	NO	NO	NO	YES	https://archive.mu.ac.in/syllabus/4.92%20%20M%20Sc%20Env%20Sci%20Sem%20III-IV.pdf
	Biodiversity: Global & Indian	PSBWCM101	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BW-CM-SEM-I-and-SEM-II-25th-July-2019.pdf
	Biomes and Natural History	PSBWCM102	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BW-CM-SEM-I-and-SEM-II-25th-July-2019.pdf
	Basics of Wildlife Biology	PSBWCM103	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BW-CM-SEM-I-and-SEM-II-25th-July-2019.pdf
	Planning & Execution of field surveys	PSBWCM104	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BW-CM-SEM-I-and-SEM-II-25th-July-2019.pdf
	Animal dispersions & Animal populations	PSBWCM201	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BW-CM-SEM-I-and-SEM-II-25th-July-2019.pdf

57	Principles of Conservation Biology	PSBWCM202	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BWCM-SEM-I-and-SEM-II-25th-July-
58	Planning and Implementation of conservation	PSBWCM203	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BWCM-SEM-I-and-SEM-II-25th-July-
59	Advanced techniques in field studies	PSBWCM204	NO	NO	NO	YES	https://old.mu.ac.in/wp-content/uploads/2016/06/4.3-MSc-BWCM-SEM-I-and-SEM-II-25th-July-
60	Sustainable Development, Molecular	PSBWCM301	NO	NO	NO	YES	https://mu.ac.in/wp-content/uploads/2021/09/6.1-M.Sc.-BWCM-Part-II-Sem-III-IV1.pdf
61	Acts and Laws of Protected Areas and People Participation in	PSBWCM302	NO	NO	NO	YES	https://mu.ac.in/wp-content/uploads/2021/09/6.1-M.Sc.-BWCM-Part-II-Sem-III-IV1.pdf
62	Environmental Monitoring and Environmental Audits	PSBWCM303	NO	NO	NO	YES	https://mu.ac.in/wp-content/uploads/2021/09/6.1-M.Sc.-BWCM-Part-II-Sem-III-IV1.pdf
63	Applications of Information Technology in Field Biology	PSBWCM304	NO	NO	NO	YES	https://mu.ac.in/wp-content/uploads/2021/09/6.1-M.Sc.-BWCM-Part-II-Sem-III-IV1.pdf
TOTAL COURSES		63	8	7	10	51	



Principal
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