				DC /	C D.15 : 15:	-	f Microbiology		1	ı				
				BSc(General) Major Mic	robiology								
Level	Sem	Disciplinary Major Mandatory	DSE Electives	Physics		Minor	Zaalaav	OE	VC/SEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Total	Exit Credit	Final Total Credits
4.5	I	4 Cr T Microbial world and Principles of Microbiology(4c) 2 Cr P :Practical based on DSC		Physics	Chemistry	Botany	Zoology	2 Cr (P): Microbiology in day to day life	2 Cr (P): Microscopy and Special staining techniqes	2 Cr T:English Oral and written communication 2 Cr T:EVS 2 Cr T: IKS	CC, Kr	22		22
4.5	II	4 Cr T Microbial biochemistry and growth 2 Cr P Practical based on Microbial biochemistry and growth			2 Cr-T: Fundamental Biochemistry	2Cr- T:Understanding Phytodiversity	2 Cr-T: Food, Nutrition and Health	2 Cr (P):Human health and diseases	2 Cr (P) Isolation and cultivation of microorganism	2 Cr T: Spoken English		22		22
Cumu	lativa	12				2		8	8	10	4	44	4	48
Cumu	lative	12			C		4 1:4 D-:: 1 C		Ů	10		•••		10
5	Ш	4 Cr T Bacterial genetics and Physiology 4 Cr Pr : Practicals based on Bacterial genetics and Physiology		Telecommun ication 2Cr-P:Fun with Mechanics	4Cr-T:Chemistry of life	2Cr-P:Botany for Entrepreneurs	2 Cr-T: Applied Zoology 2Cr-P: Applied Zoology	2 Cr Pr Microbiology for farming (Micobes in agriculture)	2 Cr Pr : Isolation and identification of bacteria	Marathi / Hindi (2)	2 Cr Pr : Micro (FP)	22		22
5		4 Cr T Environmental and agricultural Microbiology 4 Cr Pr Environmental and agricultural Microbiology			4Cr-T:Chemistry of Materials	Botany 2Cr-P:Field Botany	2Cr- T:Toxicology 2Cr- P:Toxicology	pharmaceuticals	2 Cr Pr : SEC: Fermentation technology 2 Cr Pr VEC: Production of Neutraceuticals	AEC 4 English Creative Writing (2)	2 Cr Pr: Water and Agricult ural Microbi ology (CEP)	22		22
Cumu	lative	28		10	10	10	10	12	12	14	12	118	4	122

	BSc(General) Major Microbiology													
Level	Sem	Disciplinary Major Mandatory	DSE Electives	Minor				OE	VC/SEC	AEC, VEC, IKS	OJT, FP, CEP,	Total	Exit Credit	Final Total
		Manuator y		Physics	Chemistry	Botany	Zoology				CC, RP		Credit	Credits
	Diploma on Exit + 4 credits of NSQF and Internship													
5.5		4 Cr T :Enzymology 2 Cr Pr based on medical Microbiology and Enzymology	2 Cr T: Microbial biotechnology 2 Cr Pr: Practicals based on Microbial biotechnology	its	2Cr-P:Laboratory Safety 2Cr-T:IPR and Chemoinformatic s		2Cr-T: Biodiversity, Conservation and sustainable development 2Cr-P: Biodiversity, Conservation and sustainable development				2 Cr Pr Microbi ology Lab III	22		22
5.5		Practicals based on Immunology and genetics (2C)	2 Cr T Food Microbiology 2 Cr Pr Practicals on Food microbiology OR 2 Cr T Marine Microbiology 2 Cr Pr Practicals on Marine Microbiology		2Cr- T:Instrumental methods of analysis 2Cr-P: Analytical Chemistry Practical Course		2Cr- T:Environmental Monitoring and Management 2Cr- P:Environmental Monitoring and Management				OJT (4)	22		22
Cumu	lative	48	8	18	18	18	18	12	14	14	18	132		136
						Award o	f Degree							

				BSo	c(General) Major M		ent of wherostology							
Level	Sem	Disciplinary Major Mandatory	DSE Electives	Physics	Chemistry	Minor Botany	Zoology	OE	VC/SEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Total	Exit Credit	Final Total Credits
6	VII	:Quantitative Biology 4 Cr (T) Biochemistry and Metabolism 4 Cr (P) Practicals based on Microbial systematics ,Biochemistry and Metabolism	2 Cr (T) Bioremediation and biomass utilization 2 Cr (P) Practical based on Bioremediation and biomass utilization - OR 2 Cr (T) Fungal Systematics and Extremophiles 2 Cr (P) Practical on Fungal Systematics and Extremophiles		2Cr-T+2Cr-P:	Research Method	lology					22		22

				BSc	(General) Major Mi	icrobiology								
Level	Sem	Disciplinary Major Mandatory	DSE Electives	Physics	Minor Physics Chemistry Botany Zoology			OE	VC/SEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Total	Exit Credit	Final Total Credits
		4.C. (T) I	2 C (T)(D)	Filysics	Chemistry	Dotally	Zoology				CC, KI			Credits
6	VIII	Biology 4 Cr (T) Cell organization and biochemistry- 2 Cr (P) Practicals based on Molecular Biology, Molecular biophysics and Cell organization and biochemistry	communication, Membrane transport and signal transduction- 2 Cr(P) Practical based on Microbial communication, Membrane transport and signal transduction -									22		22
Cumu	lative	76	16			22		12	14	14	22	176		184