Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Content with Cross-cutting Issues

Sr. No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP – 2020 (truth (satya), righteous conduct (dharma), peace
		entes:	envis enunc envis en sustainabilor				02.7 3%	L ostor	(shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship
			Transaction of the construction of the constru	Course provides aread protection protection of			CZ-9FCS	31-180 1-3 11-3*-2	values, life- skills; lessons in seva/service and participation in community service education)
			B.Sc. Bota	ny (Newly Introdu	uced between	2018-19 an	d 2020-21)		
1	Biodiversity in Cryptogams and Gymnosperms	DSC- 1007A	2018-19	Property	In	Business	The course describe the importance of cryptogams and gymnosperms in	- 38:0 (1 - 101 - goi	
2	Plant Ecology and Taxonomy	DSC- 1007B	2018-19	ESTI JUNE 1964	DANABUR*/	Course provides insights	environment. The course discusses importance of		

	SSS - 97M 610	inusiei, ja	(sucmon succession)	npowered Audiornny Sofony Inting Issues Inting Issues	spartment or with Cross s	about protection of Intellectual Property rights.	ecology, its benefits.	er or o	ett ograsit (18)
3	Taxonomy, Embryology	DSC- 1007C1	2019-20				Basic understanding of taxonomy helps in maintaining environmental sustainability.		
4	General Agriculture	DSC- 1012C 2 Sec - I	2019-20					Sustainable agriculture	
5	Insect Pest	DSC-1011 D 2 Sec - II	2019-20	E Cit Of the Company		Course provides insights about protectio n of Intellectu	The course discuss the importance of insect in environmental sustainability.		
			The course	10. 20.701 3. 4 (30)		al Property rights.	61-810K	100	to pain H
6	Microbiology , Plant Pathology and Biofertilizers	DSE – 1007 E 1 Sec- II	2020-21	Business Environment ESTE JUNE	SU AND US		The course helps the students understand and assess the use of biofertilizers in sustainable	i and	Inc Francis

	111111111111111111111111111111111111111	V*	idediatana			T	agriculture.		
7	Plant Biochemistry and Stress Physiology	DSE – 1007 E 2 Sec- 1	2020-21	Course provides insights anto the				1 08F- 1007 F Sec-1	11 Biostopical Edwards on Edwards on
8	Plant Systematics and Paleobotany	DSE – 1019 E 2 let Sec – II	2020-21m emicouvine ideniataus	ethical practice to be followed during scientific research			The course helps the student's use of in-situ and ex-situ methods in biodiversity conservation.	- 38F -	The policy CI
9	Technique of Life Science	SEC-E VIA	b 12-0202 is relevant its a, plura, towards a su stainable environme	Scientific Management ally ally in ethics in ethics involved in scientific in researct		Course provides insights into the ethical practices to be followed during scientific research.	Techniques applicable in the field of botany, agriculture, microbiology and biotechnology.	- 386 - 49	Butechnol
10	Genetics and Plant Breeding	DSE – 1 1007 F 1 Sec – I	conserved and supplied to the	ESTD JUNE	Ine	Scenblu Mana se	Students should be aware of traditional knowledge and protection of plant varieties helps in maintaining biodiversity and	B red b	eupertoe 5: ovio toes out off

			WHITHOUS TOTAL				sustainability.		
11	Biostatistics, Economic Botany and Ethnobotany	DSE – 1007 F 1 Sec – II	The course helps the student's a student's a exercise exercise methods in			Course provides insights into the ethical practices to be followed during scientific research.	Basic understanding of ethnobotany helps in maintaining environmental sustainability.	Held Hende Hende Hende	Since senting And Steeling Bhyreeling Systemics Raint
12	Molecular Biology and Biotechnology	DSE - 1007 F 2 Sec - I	c 12-0202 c 12-0202 applicable the field of bolany amorphore and biolechnole	Course insights ethical ethical practices to be followed scientific exiting	toen	Course provides experientially learning in ethical practices involved in scientific research.	Plant biotechnology is relevant for its applications towards a sustainable environment.	3-0.32 	to seather.
13	Horticulture, Forestry and Herbal Technology	DSE – 1007 F 2 Sec - II	2020-21 ethout3 cd bluode to enewe codiben colored colored v inste	ຕ່ວງເ. ອຂອງ		research.	Herbal technology is the eco- friendly technology and helps to conserve environment sustainability.	700°	this satisfied of the control of the
14	Techniques in Plant Diversity and Crop	SEC-F	2020-21 0 : evillored bns	Scientific Management	AND COLL	6.10	Students should be aware of		

1887.00	Improvement		to bed off	Lashaqxa			traditional	1-008	ra suparimon	4
	1		Vitaled	viia		177	knowledge and	in the state of th	Life Sciences	
	· · ·		authorige.	gamagel i			protection of			
	- 1	1 ×	general color	Estate (1)		1	plant varieties			
			thrite	practices			help in			
	,	The Alle	denstratord	havlovni			maintaining			
				TH			biodiversity			
				oittinelse			and			
				ninescon l			sustainability.			
				Botany (Revised	between 202			1 - 300	Metodology	6.
15	Biodiversity in	DSC-1007	2021-22		iner	Course	The course	1000	No. of London	
	Microbes,	-A- 1	ginebuta			provides	describe the	11-058	briefly, benefit	
	Algae and		preist puri			insights	importance of		a halatte kull	
	Fungi		Beren bris			about	cryptogams			
			to exu edt	4		protection	and			
		THE.	exiltrefold			of	gymnosperms			
	1		eldenistaus			intellectua	in			
			Lagriculture			I property	environment.			
			The course			rights.	2023-24	DSE-1	trais	130
16	Plant Ecology	DSC-1007	2022-23				The course	5 3	Systematics	
		B-1	u 2 mahula				discusses	11-308	0.16	
		- Eu	s wile and to				importance of		Parectorially	
			tro ea	- 100		100	ecology, its			
	ì						benefits.			
17	Angiosperms	DSC-1007	2022-23				The course			
	Taxonomy	B-2	Als Sylvishi			and a	describes the			
		.0.	DIEVIER LEI				importance of	The state of the s		Acceptance of
			warm I be	Course	70 -	Scientific	angiosperms	3-038	Technique of	15
		(37	da ny shortsky	aebivong	iner	regensM	taxonomy in		Life Sciente	
			oblevisett [5	Inenegxe	1,01		environment			
			you that his	ally	2.0		and		1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	
			Duran La Pa	(animsel			biodiversity			
		V#1	Cathara B	iscrite m	- Carlo		conservation.			
18	Cytology and	DSE - 1007	2023-24	ESTE JUNE 1964	Se .	Course	Techniques			1 -
	Research	E1	ontoned l	WAR	OLHAPUR*(s	provides	applicable in			
			The second second	1.8/	16	1	applicable in	1	1	

	Technique in Life Sciences	Sec-I	rac call knowledge knowledge protein in freig in maintainin biodiversit			experientially learning in ethical practices involved in scientific research.	the field of botany, agriculture, microbiology and biotechnology.		
19	Microbiology, Plant Pathology and Biofertilizers	DSE – 1007 E 1 Sec - II	2023-24	Scientific Served Management Scientific Served Management Scientific Served Management Scientific Served Management Scientific Served Management Manageme	viac osaiva	ы) Аистия	The course helps the students understand and assess the use of biofertilizers in sustainable agriculture.	10 - 35Q T AF A	Later PorB 2 2 1
20	Plant Systematics and Paleobotany	DSE - 1007 E 2 Sec - II	2023-24 Line Could Line Could Line Could The Coulde Coulded Coulded	Pfclight			The course helps the student's use of in-situ and ex-situ methods in biodiversity conservation.	ng DSC-19 R-1 ns DSC-10	Tig Plant Ecolomy Angios per Taxonomy
21	Technique of Life Science	SEC-E	2023-24 vmortunal bris passivoid devis-pag acomoull elasandas	Scientific Management Scientific Management ESTD JUNE		Course provides experienti ally learning in ethical practices involved	Techniques applicable in the field of botany, agriculture, microbiology and biotechnology		87

	1		acts arts	and the		in			por result
		Per are	Nutrally rective inve	, its	į.	scientific research.			
22	Genetics and Plant Breeding	DSE - 1007 F 1 Sec - I	2023-24	Tesearch		Scientific	Students should be aware of traditional knowledge and protection of plant varieties helps in maintaining biodiversity and sustainability.		Nederstand OS
23	Biostatistics , Economic Botany and Ethnobotany	DSE - 1007 F 1 Sec - II	2023-24 q	IEF 2020 from the	ret nu ter	thories you	Basic understanding of ethnobotany helps in maintaining environmental sustainability.		
24	Molecular Biology and Biotechnology	DSE - 1007 F 2 Sec - I	2023-24			Course provides insights into the ethical practices to be followed during scientific research.	Plant biotechnology is relevant for its applications towards a sustainable environment.	DARGUM CARCAMA DARGOSO	Escas Por Security Se
25	Horticulture, Forestery and	DSE – 1007 F 2	2023-24	STAND COLLEGE STAND ESTO	tore	Course provides	Herbal technology is	, , , , , , , , , , , , , , , , , , ,	298

	Herbal Technology	Sec - II			experientially learning in ethical practices involved in scientific research.	the eco- friendly technology and helps to conserve environment sustainability.	age of the second	538
26	Technique in Plant Diversity and Crop Improvement	SEC- F	2023-24	Scientific Management		Students should be aware of traditional knowledge and protection of plant varieties help in maintaining biodiversity and sustainability.		
				any introduced under NE	P 2020 from the y	ear 2023-24	The same service of the same service and the same service of the s	
27	Basics in Botany	DSC03BOT11	2023-24	arrage (1 15 10		
28	Plant Morphology	DSC03BOT1 2	2023-24	-1 088			y (Da	
29	Basics in Botany	MIN03BOT11	2023-24	W. S. Land 1				
30	Plant Morphology	MIN03BOT11	2023-24	Communication of the Communica		The state of the s		The second secon
31	Agri Based Microenterpri ses - I	OEC03BOT1	2023-24	ESTD JUNE 1964	Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.	Students should be aware of traditional		

		i).ne	production U = 000 Investity Lection 1005	etripiani trode outsetgog			knowledge and helps in maintaining sustainability.	VS	ADDIES ST.
32	Agri Based Microenterpri ses - II	OEC03BOT1 2	2023-24	fulandalni fulandalni					
33	Introduction to Ayurveda	IKS03BOT11	2023-24	nots.			712 2028-24	Basic understanding of Ayurveda	rechek (f. 1860) Rechekta
			Fachingtons application of boran	Course provides experient ally			LOSOS ST	maintaining a community health and mental health	Selection of the select
34	Reproductive Botany	DSC03BOT2 1	2023-24	learning in ethical practice					i i
35	Diversity and Conservation of Plants	DSC03BOT2 2	2023-24	involved in scientific research			Students should be comparing in –situ and ex-		
	_						situ conservation of biodiversity.		
36	Reproductive Botany	MIN03BOT21	2023-24					A Property	
37	Diversity and Conservation of Plants	MIN03BOT22	2023-24	AND COLLEGE			Students should be comparing in –situ and ex- situ conservation of		
38	Herbal	OEL03BOT21	2023-24	ESTD	TELLE !	Course	biodiversity. Herbal drug		

	Technology -	bne Stage	knewledgs helps in maintainin sustainal ii	provides insights about protection of intellectua I property rigts.	production is the eco- friendly technology and helps to conserve environmental sustainability.	OLCO SEC 2 KS03BO	Agn Basi Nicmoni Ses incontus	
39	Herbal Technology -	OEL03BOT22	2023-24				or hov A of	And the second of the second
40	Basic Tools of Life Sciences	SEC03BOT2	2023-24	Course provides experienti ally	Techniques applicable in the field of botany,			and the second s
				learning in ethical practices	agriculture, microbiology and	USCOMBO	sa Septocus Botany	6.9
			Students snould but comparing it	involved in scientific research.	biotechnology	2 2 2		

Dr. B.-F. Dangat

HEAD DEFARTMENT OF BOTANY VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

ESTD JUNE 1964 1964

Dr. R. R. Kumbhar

PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
AMPOWERED AUTONOMOUS)