

SPICER ADVENTIST UNIVERSITY
DIVISION OF SCIENCES
DEPARTMENT OF BOTANY (M.SC.)
COURSE STRUCTURE 2020-2023

Semester I

Course Category	Course code	Course Title	L	P	Cr.
Ability Enhancement Course (AECC1)	*AECC 511	Research Methodology	4		4
Core Course (CC1)	BOTA 511	Taxonomy I (Algae, Fungi, Bryophytes)	4		4
Core Course (CC2)	BOTA 512	Exercises in Taxonomy I (Algae, Fungi, Bryophytes)		2	2
Core Course (CC3)	BOTA 513	Cell & Molecular Biology	4		4
Core Course (CC4)	BOTA 514	Exercises in Cell & Molecular Biology		2	2
Core Course (CC5)	BOTA 515	Genetics & Plant Breeding	4		4
Core Course (CC6)	BOTA 516	Exercises in Genetics & Plant Breeding		2	2
Generic Elective (GE 1)	GECC 511	Climate Change & the Global Impact	2		2
Generic Elective (GE 2)	GECC 512	IPR, Bioethics & Biosafety	2		2
		Total			22+4

Semester II

Course Category	Course code	Course Title	L	P	Cr.
Skill Enhancement Course (SEC 1)	*SECC 521 or SECC 522	IT Skills for Botanists Or Plant Tissue Culture	2		2
Core Course (CC7)	BOTA 521	Floriculture & Nursery Management	2		2
Core Course (CC8)	BOTA 522	Exercises in Floriculture & Nursery Management		2	2
Core Course (CC9)	BOTA 523	Taxonomy II (Pteridophytes & Gymnosperms)	4		4
Core Course (CC10)	BOTA 524	Exercises in Taxonomy II (Pteridophytes & Gymnosperms)		2	2
Core Course (CC11)	BOTA 525	Plant Physiology & Biochemistry	4		4
Core Course (CC12)	BOTA 526	Exercises in Plant Physiology & Biochemistry		2	2
Core Course (CC13)	BOTA 527	Plant Ecology & Environmental Management	4		4
Core Course (CC14)	BOTA 528	Exercises in Plant Ecology & Environmental Management		2	2
		Total			22+2

Semester III

Course Category	Course code	Course Title	L	P	Cr.
Core Course (CC15)	BOTA 531	Tools & Techniques in Botany	2		2
Core Course (CC16)	BOTA 532	Exercises in Tools & Techniques in Botany		2	2
Core Course (CC17)	BOTA 533	Taxonomy III (Angiosperms)	4		4
Core Course (CC18)	BOTA 534	Exercises in Taxonomy III (Angiosperms)		2	2
Generic Elective (GE3)	GECC 531	Topics in Philosophy of Science	2		2
Generic Elective (GE4)	GECC 532	Solid Waste Management	2		2
Discipline Specific Elective Course (DSEC 1)	BOTA 535 (A, B, C or D)		4		4
Discipline Specific Elective Course (DSEC 2)	BOTA 536 (A, B, C or D)			4	4
		Total			22

Semester IV

Course Category	Course code	Course Title	L	P	Cr.
Core Course (CC19)	BOTA 541	Plant Anatomy & Plant Development	4		4
Core Course (CC20)	BOTA 542	Exercises in Plant Anatomy & Plant Development		2	2
Core Course (CC21)	BOTA 543	Project		8	8
Discipline Specific Elective Course (DSEC 3)	BOTA 545 (A, B, C or D)		4		4
Discipline Specific Elective Course (DSEC 4)	BOTA 546 (A, B, C or D)			4	4
		Total			22

*AE and SEC courses are Non-CGPA courses

Discipline Specific Courses (Specializations)

Semester III & IV (Any one)

BOTA 535 (A)/ BOTA 545 (A)	Plant Biotechnology I & II	4+4
BOTA 536 (A)/ BOTA 546 (A)	Exercises in Plant Biotechnology I & II	4+4
BOTA 535 (B)/ BOTA 545 (B)	Mycology & Plant Pathology I & II	4+4
BOTA 536 (B)/ BOTA 546 (B)	Exercises in Mycology & Plant Pathology I & II	4+4
BOTA 535 (C)/ BOTA 545 (C)	Plant Ecology I & II	4+4
BOTA 536 (C)/ BOTA 546 (C)	Exercises in Plant Ecology I & II	4+4
BOTA 535 (D)/ BOTA 545 (D)	Pharmacognosy I & II	4+4
BOTA 536 (D)/ BOTA 546 (D)	Exercises in Pharmacognosy I & II	4+4

PROGRAM FOR MSc BOTANY

Semester		I	II	III	IV	
		C x Cr	C x Cr	C x Cr	C x Cr	Total
Core Courses (Theory) (8) Core Discipline Based Choice (2)		3x4 =12	3x4=12 1x2=2	1x4=4 1x2=2	1x4=4	36
Core Courses (Practicals) (10+Project)		3x2=6	4x2=8	2x2=4	1x8=8 1x2=2	28
Elective Courses	Generic Elective (T)	2X2=4		2x2=4		8
	Discipline Specific (T+P)			2x4=8	2x4=8	16
Total CGPA CREDITS		22	22	22	22	88
Non CGPA Mandatory Courses						
Ability Enhancement Course		1X4=4				4
Skill Enhancement Course			1x2=2			2
*Co- curricular Elective						2
Tot. No. of Credits/semester		22+4	22+2	22	22	94+2
Total number of Theory Courses		6	5	5	2	18
Total number of Practicals		3	4	3	2 + Project	12 + Project
Total Marks for CGPA		800	800	800	400+ 200 (Project)	3000

*Elective Co-curricular = 2 cr (Any 2 activities, 1 credit each) Semester I,II,III or IV

MOOC's, Seminars & Conferences participation, Club leadership,
SEED (Swatch Bharat), Sports