

SECOND YEAR- FOURTH SEMESTER

MC-7-T	3	PLANT PHYSIOLOGY
MC-7-P	1	PLANT PHYSIOLOGY
MC-8-T	3	CELL BIOLOGY AND PLANT BREEDING
MC-8-P	1	CELL BIOLOGY AND PLANT BREEDING
MC-9-T	3	PALYNOLOGY AND REPRODUCTIVE BIOLOGY OF ANGIOSPERMS
MC-9-P	1	PALYNOLOGY AND REPRODUCTIVE BIOLOGY OF ANGIOSPERMS
MnC-4-T	3	PLANT MORPHOLOGY AND SYSTEMATICS
MnC-4-P	1	PLANT MORPHOLOGY AND SYSTEMATICS

Syllabus for undergraduate programme in Botany [NEP-2020]

ACADEMIC YEAR		SEMESTER		MAJOR COURSE (MC)	MULTI DISCIPLINARY COURSE (MDC)	MINOR COURSE (MnC)	DISCIPLINE SPECIFIC ELECTIVE (DSE)	SKILL ENHANCEMENT COURSE (SEC)	ABILITY ENHANCEMENT COURSE (AEC)	INTERNSHIP / APPRENTICE-SHIP/ PROJECT/ COMMUNITY OUTREACH (IAPC)	VALUE ADDED COURSE (VAC)	TOTAL CREDIT
1 ST YEAR	SEM-I	MC-1-T MC-1-P MC-2-T MC-2-P	MDC-1	MnC-1-T MnC-1-P				SEC-1	MIL-1		ENV	22
	SEM-II	MC-3-T MC-3-P MC-4-T MC-4-P	MDC-2	MnC-2-T MnC-2-P				SEC-2	MIL-2	IAPC Must for certificate Optional For diploma	Choose ONE from pool	22 + 2 ^{IAPC}
2 ND YEAR	SEM-III	MC-5-T MC-5-P MC-6-T MC-6-P	MDC-3	MnC-3-T MnC-3-P				SEC-3	ENGLISH Lang-1			20

SEM-IV	MC-7-T MC-7-P MC-8-T MC-8-P MC-9-T MC-9-P			MnC-4-T MnC-4-P					ENGLISH Lang-2	IAPC Must for Diploma & above stage		18 + 2 ^{IAPC}
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4TH YEAR HONOURS	SEM-VII	MC-14-T MC-14-P DSE-5A-T DSE-5A-P DSE-5B-T DSE-5B-P DSE-6A-T DSE-6A-P DSE-6B-T DSE-6B-P DSE-7A-T DSE-7A-P DSE-7B-T DSE-7B-P		MnC-7-T MnC-7-P					20
	SEM-VIII	MC-15-T MC-15-P DSE-8A-T DSE-8A-P DSE-8B-T DSE-8B-P DSE-9A-T DSE-9A-P DSE-9B-T DSE-9B-P DSE-10A-T DSE-10A-P DSE-10B-T DSE-10B-P		MnC-8-T MnC-8-P			DM OR APE		24

3 RD YEAR	SEM-V	MC-10-T MC-10-P MC-11-T MC-11-P DSE-1A-T DSE-1A-P DSE-1B-T DSE-1B-P DSE-2A-T DSE-2A-P DSE-2B-T DSE-2B-P	MnC-5-T MnC-5-P					Choose ONE from pool	3
	SEM-VI	MC-12-T MC-12-P MC-13-T MC-13-P DSE-3A-T DSE-3A-P DSE-3B-T DSE-3B-P DSE-4A-T DSE-4A-P DSE-4B-T DSE-4B-P	MnC-6-T MnC-6-P						20
4 TH YEAR HONOURS + RESEARCH	SEM-VII	MC-14-T MC-14-P DSE-5A-T DSE-5A-P DSE-5B-T DSE-5B-P DSE-6A-T DSE-6A-P DSE-6B-T DSE-6B-P	MnC-7-T MnC-7-P				DM OR APE		20

	SEM-VIII	MC-15-T MC-15-P DSE-7A-T DSE-7A-P DSE-7B-T DSE-7B-P DSE-8A-T DSE-8A-P DSE-8B-T DSE-8B-P	MnC-8-T MnC-8-P				DM & APE		24
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- DM = Dissertation on Major
- APE = Academic Project / Entrepreneurship
- Total credits at the end of 4th year = 170
- Students can exit after semester-II; for that, the student has to secure 44 credits + 2 credits = total 46 credits. For such case, student has to complete the IAPC course and will be awarded UNDER GRADUATE CERTIFICATE IN BOTANY.
- Students can exit after semester-IV; for that, the student has to secure 84 credits inclusive of one (01) IAPC course (either at semester-II or semester-IV). . For such case, student has to complete the IAPC course and will be awarded UNDER GRADUATE DIPLOMA IN BOTANY.
- Student can exit after semester-VI; for that the student has to secure 126 credits inclusive of one (01) IAPC course (either at semester-II or semester-IV). In such case the student will be awarded UNDER GRADUATE DEGREE IN BOTANY.
- The fourth year of study has two options for the students, in both options, student has to secure 170 credits. The students on successful completion will be awarded as follows:-
- ❖ **Either** BACHELOR OF BOTANY HONOURS WITH RESEARCH / HONOURS WITH RESEARCH IN DISCIPLINE-1 (MAJOR) WITH DISCIPLINE-2 (MINOR) DISCIPLINES.
- ❖ **Or** BACHELOR OF BOTANY HONOURS IN DISCIPLINE-1 (MAJOR) WITH DISCIPLINE-2 (MINOR)
 - A student willing to be awarded the degree with first option (i.e. Honours with Research) has to complete **EITHER two (02) Dissertations on Major discipline & one (01) Academic projects / Entrepreneurships OR one (01) Dissertation on Major discipline and two (02) Academic projects / Entrepreneurships during semester-VII and semester-VIII, each of four (04) credits.**
 - A student willing to be awarded the degree with second option (i.e. Honours) has to complete **only one (01) Dissertation on Major discipline / Academic project / Entrepreneurship of four (04) credits.** The student has to study one extra DSE course both in semester-VII and semester-VIII than the prior case.
- ✓ The four-year under graduate programme has to be completed in maximum seven years of duration.
- ✓ Common pool of MDC Courses & VAC-Courses will be offered as recommended by the UGB.

COURSE NOMENCLATURE

CODE	CREDIT	NOMENCLATURE
FIRST YEAR- FIRST SEMESTER		
MC-1-T	3	ALGAE AND MICROBIOLOGY
MC-1-P	1	ALGAE AND MICROBIOLOGY
MC-2-T	3	FUNGI, LICHEN AND PLANT PATHOLOGY
MC-2-P	1	FUNGI, LICHEN AND PLANT PATHOLOGY
MnC-1-T	3	BIODIVERSITY
MnC-1-P	1	BIODIVERSITY
SEC-1	3	MEDICINAL BOTANY
FIRST YEAR- SECOND SEMESTER		
MC-3-T	3	BRYOPHYTA AND PTERIDOPHYTA
MC-3- P	1	BRYOPHYTA AND PTERIDOPHYTA
MC-4-T	3	PLANT MORPHOLOGY AND PLANT SYSTEMATICS
MC-4-P	1	PLANT MORPHOLOGY AND PLANT SYSTEMATICS
MnC-2-T	3	BIODIVERSITY
MnC-2-P	1	BIODIVERSITY
SEC-2	3	BASIC LABORATORY AND FIELD SKILL
SECOND YEAR- THIRD SEMESTER		
MC-5-T	3	GYMNOSPERM AND PALEOBOTANY
MC-5- P	1	GYMNOSPERM AND PALEOBOTANY
MC-6-T	3	PLANT ANATOMY AND PLANT ECOLOGY
MC-6-P	1	PLANT ANATOMY AND PLANT ECOLOGY
MnC-3-T	3	PLANT MORPHOLOGY AND SYSTEMATICS