

**B.Sc. Botany: Course Structure under CBCS****(For the candidates admitted from the academic year 2016-2017 onwards)**(NAAN MUDHALVAN SCHEME was Implemented from 4<sup>th</sup> onwards for 2021-22 Batch)

Sem	Part	Course	Title	Instru. Hours/ Week	Credit	Exam Hours	Marks		Total
							In t.	Ext .	
I	I	Language Course – I (LC) – Tamil*/Other Languages + #		6	3	3	25	75	100
	II	English Language Course – I (ELC)		6	3	3	25	75	100
	III	Core Course – I (CC)	Bacteria, Viruses, Algae, Fungi and Lichens	5	5	3	25	75	100
		Core Practical – I (CP)	Bacteria, Virus, Algae, and Fungi Andlichens & Plant Pathology and Plant Protection (P)	3	-	** *	-	-	-
		First Allied Course – I (AC)		5	4	3	25	75	100
		First Allied Course – II (AP)		3	-	** *	-	-	-
		Add on Course – I ##	Professional English I	6	4	3	25	75	100
	IV	Value Education	Value Education	2	2	3	25	75	100
<b>Total</b>				<b>30</b>	<b>21</b>				<b>600</b>
II	I	Language Course – II (LC) – Tamil*/Other Languages + #		6	3	3	25	75	100
	II	English Language Course – II (ELC)		6	3	3	25	75	100
	III	Core Course – II (CC)	Plant Pathology and Plant Protection	5	5	3	25	75	100
		Core Practical – I (CP)	Bacteria, Viruses, Algae, Fungi and Lichens & Plant Pathology and Plant Protection (P)	3	4	3	40	60	100
		First Allied Course – II (AP)		2	2	3	40	60	100
		First Allied Course – III (AC)		5	4	3	25	75	100
		Add on Course – II ##	Professional English II	6	4	3	25	75	100
	IV	Environmental Studies	Environmental Studies	3	2	3	25	75	100
<b>Total</b>				<b>30</b>	<b>27</b>				<b>800</b>

III	I	Language Course – III (LC) – Tamil*/Other Languages + #		6	3	3	25	75	100
	II	English Language Course – III (ELC)		6	3	3	25	75	100
	III	Core Course – III (CC)	Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	6	5	3	25	75	100
		Core Practical – II (CP)	Bryophytes, Pteridophytes, Gymnosperms and Paleobotany & Anatomy and Embryology	3	-	***	-	-	-
		Second Allied Course – I (AC)		5	4	3	25	75	100
		Second Allied Course – II (AP)		2	-	***	-	-	-
	IV	Non–Major Elective I – for those who studied Tamil under Part I  a) Basic Tamil for other language students  b) Special Tamil for those who studied Tamil upto +2 but opt for other languages in degree programme	Biofertilizers and Biopesticides @	2	2	3	25	75	100
Total			30	17				500	
IV	I	Language Course –IV (LC) – Tamil*/Other Languages + #		6	3	3	25	75	100
	II	English Language Course – IV (ELC)		6	3	3	25	75	100
	III	Core Course – IV (CC)	Anatomy and Embryology	5	5	3	25	75	100
		Core Practical – II (CP)	Bryophytes, Pteridophytes, Gymnosperms and Paleobotany & Anatomy and Embryology (P)	3	4	3	40	60	100
		Second Allied Course – II (AP)	Practical	2	2	3	40	60	100
		Second Allied Course – III (AC)		4	4	3	25	75	100
	IV	Non Major Elective II – for those who studied Tamil under Part I  a) Basic Tamil for other language students  b) Special Tamil for those who studied Tamil upto +2 but opt for other languages in degree programme	Horticulture @	2	2	3	25	75	100
		Skill Based Elective - I	Skill Based Elective - I	2	2	3	25	75	100
	VI	Naan Mudhalvan Scheme (NMS) @@	Digital Skills for Employability	-	2	3	25	75	100
	Total			30	27				900

V	III	Core Course – V (CC)	Cell and Molecular Biology	5	5	3	25	75	100
		Core Course – VI (CC)	Genetics, Biostatistics and Evolution	5	5	3	25	75	100
		Core Course – VII (CC)	Morphology, Taxonomy and Economic Botany	4	4	3	25	75	100
		Core Practical – III (CP)	Cell and Molecular Biology & Genetics, Biostatistics and Evolution & Morphology, Taxonomy of Angiosperms and Economic Botany (P)	6	5	3	40	60	100
		Major Based Elective – I	Medical and Applied Botany	4	4	3	25	75	100
	IV	Skill Based Elective – II	Skill Based Elective - II	2	2	3	25	75	100
		Skill Based Elective – III	Skill Based Elective – III	2	2	3	25	75	100
		Soft Skills Development		2	2	3	25	75	100
	VI	Naan Mudhalvan Scheme (NMS) @@	Advanced Technology for Employability in Life Science - Zoology	-	2	3	25	75	100
	<b>Total</b>			<b>30</b>	<b>31</b>				<b>900</b>
VI	III	Core Course – VIII (CC)	Plant Physiology, Biochemistry and Biophysics	6	6	3	25	75	100
		Core Course – IX (CC)	Plant Ecology and Conservation	6	6	3	25	75	100
		Core Practical – IV (CP)	Plant Physiology, Biochemistry and Biophysics & Plant Ecology and Conservation (P)	6	6	3	40	60	100
		Major-Based Elective II	Plant Breeding, Horticulture and Landscaping	6	5	3	25	75	100
		Major-Based Elective III	Plant Biotechnology and Bioinformatics	5	4	3	25	75	100
	V	Extension Activities **	Extension Activities	-	1	-	-	-	-
		Gender Studies	Gender Studies	1	1	3	25	75	100
	VI	Naan Mudhalvan Scheme (NMS) @@	Food and Agri Business Management Skill for Employability	-	2	3	25	75	100
	<b>Total</b>			<b>30</b>	<b>31</b>				<b>700</b>
	<b>Grand Total</b>			<b>180</b>	<b>154</b>				<b>4400</b>

### List of Allied Courses

#### Group – I (First Year)

##### Zoology

Language Part – I	-	4
English Part –II	-	4
Core Paper	-	9
Core Practical	-	4
Add-on Course	-	2
Allied Paper	-	4
Allied Practical	-	2
Non-Major Elective	-	2
Skill-Based Elective	-	3
Major-Based Elective	-	3
Environmental Studies	-	1
Value Education	-	1

#### Group – II (Second Year)

##### Chemistry

Soft Skill Development	-	1
Gender Studies	-	1
Extension Activities	-	1 (Credit only)
Naan Mudhalvan Scheme	-	3

\* For those who studied Tamil upto 10<sup>th</sup> +2 (Regular Stream).

+ Syllabus for other Languages should be on par with Tamil at degree level.

# Those who studied Tamil upto 10<sup>th</sup> +2 but opt for other languages in degree level under Part- I should study special Tamil in Part – IV.

## The Professional English – Four Streams Course is offered in the 1<sup>st</sup> and 2<sup>nd</sup> Semester in all UG Courses. It will be taught apart from the Existing hours of teaching / additional hours of teaching (1 hour /day) as a 4 credit paper as an add on course on par with Major Paper and completion of the paper is must to continue his / her studies further. The Extra 6 hrs / cycle will be utilized for the Add on Professional English Course. (As per G.O. No. 76, Higher Education (K2) Department dated: 18.07.2020).

@ NCC Course is one of the Choices in Non-Major Elective Course. Only the NCC cadets are eligible to choose this course. However, NCC Course is not a Compulsory Course for the NCC Cadets.

\*\* Extension Activities shall be outside instruction hours.

@@ Naan Mudhalvan Scheme as per Government instruction.

#### **Note:**

	Internal Marks	External Marks
1. Theory	25	75
2. Practical	40	60
3. Separate passing minimum is prescribed for Internal and External marks		

#### **FOR THEORY**

The passing minimum for CIA shall be 40% out of 25 marks [i.e. 10 marks]

The passing minimum for University Examinations shall be 40% out of 75 marks [i.e. 30 marks]

#### **FOR PRACTICAL**

The passing minimum for CIA shall be 40% out of 40 marks [i.e. 16 marks]

The passing minimum for University Examinations shall be 40% out of 60 marks [i.e. 24 marks]

#### **Note :**

1. As a part of Botany Degree Course every student shall undertake a tour and Field study of Vegetation under the guidance of the staff for not less than (FIVE DAYS within the state) in the III year and submit a minimum number of 25 Herbarium sheets. Students shall submit duly certified record of their practical Work for all the practical examinations and those who do not submit the record shall not be permitted to the concerned practical examination.
2. The IA components for the practicals are skill – 10 marks, Test 2 x 10 = 20 Marks, Observation – 10 Marks [for Taxonomy practicals Herbarium marks to be included in the IA component in the place of skill Marks]