



### Bachelor of Computer Applications: 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	
							Int	Extn		
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)	Programming in C	6	5	3	25	75	100
			Core Practical-I (CP)	Programming in C (P)	3	2	3	40	60	100
			First Allied Course–I (AC)		4	4	3	25	75	100
			First Allied Course–II (AC)		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>23</b>				<b>700</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)	Programming in C++	6	6	3	25	75	100
			Core Practical-II (CP)	Programming in C++ (P)	3	2	3	40	60	100
			First Allied Course–II (AC)		3	3	3	25	75	100
			First Allied Course–III (AC)		4	2	3	25	75	100
		Add on Course – II ##	Professional English II	6	4	3	25	75	100	
	IV	Environmental Studies	Environmental Studies	2	2	3	25	75	100	
<b>Total</b>				<b>30</b>	<b>25</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)	Programming in Java		6	5	3	25	75	100
		Core Practical-III (CP)	Programming in Java (P)		3	2	3	40	60	100
		Second Allied Course–I (AC)			4	4	3	25	75	100
		Second Allied Course – II (AC and AP) (Theory-60 marks (UE:45 IA:15) (Practical-40marks (UE:30IA:10)			3	-	-	-	-	-
		Non Major Elective I - for those who studied Tamil under Part I  a) Basic Tamil for other language students  b) Special Tamil for those whostudiedTamilupto+2 but opt for other languages in degree programme	Working Principles of Internet @		2	2	3	25	5	100
	<b>Total</b>				<b>30</b>	<b>19</b>				<b>600</b>
	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)	Database Systems		5	5	3	25	75	100
		Core Practical-IV (CP)	Database Systems (P)		3	2	3	40	60	100
		Second Allied Course – II (AC and AP) (Theory-60 marks (UE:45IA:15) (Practical-40marks (UE:30IA:10)			3	3	(2+2) 4***	40	60	100
		Second Allied Course–III(AC)			3	2	3	25	75	100
		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	Fundamentals of Information Technology @		2	2	3	25	75	100
IV		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
<b>Total</b>				<b>30</b>	<b>24</b>				<b>900</b>	

V	III	Core Course V [CC]	Data Structures and Algorithms	5	5	3	25	75	100	
		Core Course VI [CC]	Operating Systems	5	5	3	25	75	100	
		Core Course VII [CC]	Digital Computer Fundamentals	5	5	3	25	75	100	
		Core Practical V [CP]	Computer Graphics and Animation(P)	4	3	3	40	60	100	
		Major Based Elective-I	Computer Graphics / Software Engineering / Software Testing	5	5	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	Soft Skills Development	2	2	3	25	75	100	
	VI	Naan Mudhalvan Scheme (NMS) @@	Cloud and IT Essentials for Employability	-	2	3	25	75	100	
	<b>Total</b>				<b>30</b>	<b>31</b>				<b>900</b>
VI	III	Core Course VIII [CC]	Computer Networks	6	6	3	25	75	100	
		Core Course IX [CC]	Programming in PHP	6	6	3	25	75	100	
		Core Practical VI [CP]	Programming in PHP (P)	5	4	3	40	60	100	
		Major Based Elective-II	Cloud Computing / Business Process Outsourcing / Mobile Computing	6	6	3	25	75	100	
		Major Based Elective -III	Mini Project ( Students to do it in their respective Colleges) / Linux Lab / Dot Net Lab	6	6	3	40	60	100	
	V	Extension Activities \$	Extension Activities	-	1	-	-	-	-	-
		Gender Studies	Gender Studies	1	1	3	25	75	100	
	VI	NaanMudhalvan Scheme (NMS) @@	Emerging Technology for Employability	-	2	3	25	75	100	
	<b>Total</b>				<b>30</b>	<b>32</b>				<b>700</b>
	<b>Grand Total</b>				<b>180</b>	<b>154</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4600</b>

### List of Allied Courses

Allied Course I

#### Mathematics

Language Part-I	-	4
English Part-II	-	4
Core Paper	-	9
Core Practical	-	6
Add-on Course	-	2
Allied Paper	-	4
Allied Practical	-	2
Non-Major Elective	-	2
Skill Based Elective	-	3
Major Based Elective	-	3

Allied Course II

#### Accounting and OB

Environmental Studies	-	1
Value Education	-	1
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.

Non Major Elective I & II for those who studied Tamil under Part I

- Basic Tamil I & II for other language students
- Special Tamil I & II for those who studied Tamil upto 10<sup>th</sup> or +2 but opt for other languages in degree programme

<b>Note:</b>	<b>Internal Marks</b>	<b>External Marks</b>
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].

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