

KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

COIMBATORE – 641 029



Prospectus with number of Courses in all Programs for the Academic Year 2019-2020

CURRICULUM AND SCHEME OF EXAMINATIONS (CBCS)

(2019 – 2020)

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CURRICULUM AND SCHEME OF EXAMINATION UNDER CBCS
(APPLICABLE TO STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020 AND ONWARDS)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam. hours	Credit
					CIA	ESE	TOTAL		
I	I	18 TML101@	Language I/ Tamil/ Malayalam/Hindi/ French	6	25	75	100	3	3
	II	19ENG101	English I	6	25	75	100	3	3
	III	19UEL101	Core paper 1-Prose	6	25	75	100	3	4
		19UEL102	Core paper 2-Fiction	5	25	75	100	3	4
		19UEL1A1	Allied paper 1: Social History of England	5	25	75	100	3	5
	IV	19EVS101	Environmental Studies**	2	-	50	50	3	2
			Total	30	125	425	550	-	18
II	I	19TML202@	Language II Tamil/ Malayalam/Hindi/ French	6	25	75	100	3	3
	II	19ENG202	English II	6	25	75	100	3	3
	III	19UEL203	Core paper 3- Grammar and Usage	6	25	75	100	3	4
		19UEL204	Core paper 4-Drama	5	25	75	100	3	4
		19UEL2A2	Allied paper 2: Literary Forms	5	25	75	100	3	5
	IV	19VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2
			Total	30	125	425	550	-	21
III	I	19TML303@	Language III Tamil/ Malayalam/Hindi/French	6	25	75	100	3	3
	II	19ENG303	English III	6	25	75	100	3	3
	III	19UEL305	Core paper 5- Poetry I	4	25	75	100	3	4
		19UEL306	Core paper 6- Introduction to Phonetics	5	25	75	100	3	4
		19UEL3A3	Allied paper 3: History of English Literature	5	25	75	100	3	5
	IV	19UGA3S1	Skill Based Subject: 1 General Awareness	2	25	75	100	3	3
		19UEL3N1/ 19TBT301/ 19TAT301	Basic Tamil*/ Advanced Tamil** (OR) Non-Major Elective-I**	2	-	75	75	3	3
			Total	30	150	525	675	-	25

UEL5

Sem	Part	Subject code	Title of the Paper	Instruction	Marks			Duration of Exam. hours	Credit
					CIA	ESE	Total		
IV	I	19TML404@	Language IV Tamil/ Malayalam/Hindi/French	6	25	75	100	3	3
	II	19ENG404	English IV	6	25	75	100	3	3
	III	19UEL407	Core paper 7-Poetry II	5	25	75	100	3	4
		19UEL408	Core paper 8-Indian Writing in English	4	25	75	100	3	4
		19UEL4A4	Allied paper 4: Introduction to Journalism	5	25	75	100	3	5
	IV	19UEL4S2	Skill Based Subject: 2 Inspiring Speeches	2	25	75	100	3	3
		19UEL4N2/ 19TBT402/ 19TAT402	Basic Tamil*Advanced Tamil**(OR) Non-Major Elective-II**	2	-	75	75	3	2
			Total	30	150	525	675	-	24
V	I	19UEL509	Core paper 9 -Shakespeare I	5	25	75	100	3	4
	II	19UEL510	Core paper 10 - American Literature	6	25	75	100	3	4
	III	19UEL511	Core paper 11-Literary Criticism	6	25	75	100	3	4
		19UEL512	Core paper 12-Introduction to Travel Writing	6	25	75	100	3	4
		19UEL5E1	Major Elective I	5	25	75	100	3	5
	IV	19UEL5X1	EDC	2	25	75	100	3	3
		19UEL5IT	Internship Training	Grade					
			Total	30	150	450	600	-	24
VI	I	19UEL613	Core paper 13 -Shakespeare II	5	25	75	100	3	3
	II	19UEL614	Core paper 14 - Indian Literature in English Translation	6	25	75	100	3	3
	III	19UEL615	Core paper 15- Women's Writings in English	5	25	75	100	3	3
		19UEL616	Core paper 16 - New Literatures in English	5	25	75	100	3	3
		19UEL6E2	Major Elective II	5	25	75	100	3	5
		19UEL6Z1	Project and Viva voce	2	-	-	100	-	5
	IV	19UEL6S4	Skill Based Subject: 4 English Language Teaching	2	25	75	100	3	3
	V	\$\$	Extension Activities *	-	50	-	50	-	1
			Total	30	225	525	750	-	26
Grand Total				180			3800	-	140

CBCS – Choice Based Credit system
CIA – Continuous Internal Assessment
ESE – End of Semester Examinations

@ French / Hindi / Malayalam / Sanskrit

* No End-of-Semester Examinations (ESE). Only Continuous Internal Assessment (CIA).

** No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal-20 marks

**** The students shall undergo an Internship training / field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
< 40	U (Reappear)

Major Elective Papers (2 papers are to be chosen from the following 6 papers)

1. Technical English
2. Children's Literature
3. Classical Literature in Translation
4. Ethics in Literature
5. Intensive Study of an Author
6. Commonwealth Literature

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Sub. Code & Title of the Extra Departmental Code (EDC):

19UEL5X1 – English for Competitive Examinations

Certificate Course:

Journalism and Mass Media

List of Extension Activities

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core/ allied subjects, no. of paper both theory and practical are included wherever applicable. However, the total credits and marks for core/ allied subjects remain the same as stated below.

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical/Project	1600	60
		Allied	400	20
		Electives	300	15
4.	IV	Basic Tamil / Advanced Tamil (or) Non-major Elective	150	4
		Skill Based Subject	400	12
		Environmental Studies	50	2

		Value Education	50	2
5.	V	Extension Activities	50	1
		Total	3800	140

- 25% CIA is applicable to all subjection expects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a SWAYAM-MOOC before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A Field Trip preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75=150/10) 15	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN**K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate****1. Theory Examination - Part I, II & III****(i) CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

Components of Continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	(75+75 = 150/10)	25
	CIA 2	75	15	
	Assignment/Seminar		5	

UEL10

Attendance	5	
Practical CIA Practical	25	40
Observation Notebook	10	
Attendance	5	
Project Review	15	20
Regularity	5	

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COIMBATORE – 641 029

Program Name : B.Sc Mathematics

Curriculum and Scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2019-2020 and Onwards)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam (hours)	Credits
					CIA	ESE	TOTAL		
I	I	19TML101 [@]	Language I@	6	25	75	100	3	3
	II	19ENG101	English -I	6	25	75	100	3	3
	III	19UMA101	Core Paper 1 - Classical Algebra	4	25	75	100	3	4
	III	19UMA102	Core Paper 2 - Calculus	5	25	75	100	3	4
	III	19UMA1I1	Allied Paper 1 - Statistics I	7	25	75	100	3	5
	IV	19EVS101	Environmental Studies **	2	-	50	50	3	2
	Total			30	-	-	550	-	21
II	I	19 TML202 [@]	Language II@	6	25	75	100	3	3
	II	19ENG202	English –II	6	25	75	100	3	3
	III	19UMA203	Core Paper 3 - Differential Equations and Laplace Transforms	4	25	75	100	3	4
	III	19UMA204	Core Paper 4 - Trigonometry, Vector calculus and Fourier Series	5	25	75	100	3	4

	III	19UMA2I2	Allied Paper 2 - Statistics II	7	25	75	100	3	5
	IV	19VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2
	Total			30	-	-	550	-	21
III	I	19TML303 [@]	Language III@	6	25	75	100	3	3
	II	19ENG303	English –III	6	25	75	100	3	3
	III	19UMA305	Core Paper 5 - Analytical Geometry	4	25	75	100	3	4
	III	19UMA306	Core Paper 6 - Statics	3	25	75	100	3	4
	III	19UPH3A1	Allied Paper 3 - Physics I Theory	5	20	55	75	3	4
	III	-	Allied Practical 1- Physics I Practical	2	-	-	-	-	-
	IV	19UGA3S1	Skill Based subject 1- General Awareness	2	25	75	100	2	3
	IV	19TBT301/19TAT301/19UHR3N1	Basic Tamil* / Advanced Tamil**/ Non-major elective- I**	2	-	75	75	3	2
	Total			30	-	-	650	-	23
IV	I	19TML404 [@]	Language IV@	6	25	75	100	3	3
	II	19ENG404	English –IV	6	25	75	100	3	3
	III	19UMA407	Core Paper 7 –Number Theory	3	25	75	100	3	4
	III	19UMA408	Core Paper 8 - Dynamics	4	25	75	100	3	4
	III	19UPH4A2	Allied Paper 4 - Physics	5	20	55	75	3	4

			II – Theory						
	III	19UPH4AL	Allied Practical 1- Physics I Practical	2	20	30	50	3	2
	IV	19UMA4S2	Skill Based subject 2- Mathematical Structure	2	25	75	100	3	3
	IV	19TBT301/19T AT301/19UHR 3N1	Basic Tamil* / Advanced Tamil**/ Non-major elective- II**	2	-	75	75	3	2
	Total			30	-	-	700	-	25
V	III	19UMA509	Core Paper 9 - Real Analysis I	5	25	75	100	3	3
	III	19UMA510	Core Paper 10 - Complex Analysis I	6	25	75	100	3	4
	III	19UMA511	Core Paper 11 - Modern Algebra I	6	25	75	100	3	4
	III	19UMA512	Core Paper 12 - Programming in C- Theory	4	25	75	100	3	3
	III	19UMA5CL	Core Practical - Programming in C- Practical	2	40	60	100	3	2
	III	19UMA5E1	Major Elective 1	5	25	75	100	3	5
	IV	-	EDC	2	25	75	100	3	3
	-	19UMA5IT	Internship Training ****	Grade					
	Total			30	-	-	700	-	24
VI	III	19UMA613	Core Paper 14 - Real Analysis II	6	25	75	100	3	4
	III	19UMA614	Core Paper 15 - Complex	6	25	75	100	3	4

			Analysis II						
	III	19UMA615	Core Paper 16 - Modern Algebra II	6	25	75	100	3	4
	III	19UMA6E2	Major Elective 2	6	25	75	100	3	5
	III	19UMA6Z1	Project***	3	20	80	100	-	5
	IV	1 9UMA 6S3	Skill Based Subject 3- Fundamentals of LaTeX-Practical	3	25	75	100	3	3
	Total			30	-	-	600	-	25
	V	19NCC/NSS/Y RC/PYE/ECC/ RRC/ WEC101#	Extension Activities*	-	50	-	50	-	1
	Grand Total			-	-	-	3800	-	140

Note :

CBCS – Choice Based Credit system

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

@ Hindi/Malayalam/ French/ Sanskrit – 19HIN/MLM/FRN/SAN101 - 202

* - No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

**- No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal-20 marks

**** The students shall undergo an Internship training / field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective Faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85 – 100	O
70 – 84	D
60 – 69	A
50 – 59	B
40 – 49	C
< 40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Operations Research
2. Numerical Methods
3. Linear Algebra
4. Astronomy
5. Fuzzy Mathematics
6. Combinatorics

Non-Major Elective Papers

1. Human's Rights
2. Women's Rights
3. Consumer Affairs

Sub. Code & Title of the Extra Departmental Course (EDC) :

19UMA5X1 - Fundamentals of Mathematics

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical	1600	60
		Allied	400	20
		Electives/Project	300	15
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major electives	150	4
		Skill Based subject	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
		Total	3800	140

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.

- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75	15	
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remembering;K2-Understanding;K3-Applying;K4-Analyzing;K5-Evaluating

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report Viva voce	60	80
K4		20	
K5			

UPH1

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COIMBATORE-641 029

B.Sc. PHYSICS

Curriculum and Scheme of Examination under CBCS

(APPLICABLE TO STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019 –2020 ONWARDS)

Semester	Part	Subject code	Title of the Paper	Instruction hours / cycle	Exam. Marks			Duration of Exam. Hrs.	Credit
					CIA	ESE	Total		
I	I	19TML101 [@]	Language I [@]	6	25	75	100	3	3
	II	19ENG101	English I	6	25	75	100	3	3
	III	19UPH101	C.P.1– Properties of Matter and Sound	6	25	75	100	3	5
		19UPH2CL	C.Pr.1-Practical I	3	-	-	-	-	-
		19UMA1A1	Allied Subject I Mathematics – I	7	25	75	100	3	5
	IV	19EVS101	Environmental Studies**	2	-	50	50	3	2
				30	100	350	450		19
II	I	19TML202 [@]	Language II [@]	6	25	75	100	3	3
	II	19ENG202	English II	6	25	75	100	3	3
	III	19UPH202	C.P.2 – Heat and Thermodynamics	6	25	75	100	3	5
		19UPH2CL	C.Pr.1-Practical I	3	40	60	100	3	2
		19UMA2A2	Allied Subject I Mathematics –II	7	25	75	100	3	5
	IV	19VED201	Value Education - Moral and Ethics**	2	-	50	50	3	2
				30	140	410	550	-	20
III	I	19TML303 [@]	Language III [@]	6	25	75	100	3	3
	II	19ENG303	English III	6	25	75	100	3	3
	III	19UPH303	C.P.3 – Mechanics	4	25	75	100	3	5
		19UPH4CM	C.Pr.2 Practical II	3	-	-	-	-	-

UPH 2

		19UCH3A3	Allied Subject II Chemistry –I	4	20	55	75	3	4
		19UCH4AL	Allied Practical Chemistry Practical	3	-	-	-	-	-
	IV	19UGA3S1	Skill based Subject 1 – General Awareness	2	25	75	100	3	3
	IV	19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil*/Advanced Tamil** / Non Major Elective-I**	2	-	75	75	3	2
				30	120	430	550	-	20

IV	I	19TML404 [@]	Language IV [@]	6	25	75	100	3	3
	II	19ENG404	English IV	6	25	75	100	3	3
	III	19UPH404	C.P.4 – Electricity and Magnetism	4	25	75	100	3	5
		19UPH4CM	C.Pr.2 – Practical II	3	40	60	100	3	2
		19UCH4A4	Allied Subject II Chemistry –II	4	20	55	75	3	4
		19UCH4AL	Allied Practical Chemistry Practical	3	20	30	50	3	2
	IV	19UPH4S2	Skill based Subject –2 Medical Instrumentation	2	25	75	100	3	3
		19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil* / Advanced Tamil** / Non Major Elective - II**	2	-	75	75	3	2
	-	19UPH5IT	Internship Training****	Grade					
				30	190	520	700		24

V	III	19UPH505	C.P.5 – Mathematical Physics	4	25	75	100	3	4
		19UPH506	C.P.6 – Optics	4	25	75	100	3	4
		19UPH507	C.P.7 – Principles of Electronic Devices and Circuits	4	25	75	100	3	4
		19UPH508	C.P.8 – Quantum Mechanics and Relativity	4	25	75	100	3	5
		19UPH5E1	Major Elective Paper 1 – Laser Physics & Fiber Optics	4	25	75	100	3	5
		19UPH6CN	C.Pr.3– Practical III - General	3	-	-	-	-	-

UPH 3

		19UPH6CO	C.Pr.4 – Practical IV - Electronics	3	-	-	-	-	-
		19UPH6CP	C.Pr.5 – Practical V - Digital Electronics and Microprocessors	2	-	-	-	-	-
	IV	19UPH5X1	EDC	2	25	75	100	3	3
				30	150	450	600		25
VI	III	19UPH609	C.P.9 – Atomic and Solid State Physics	5	25	75	100	3	4
		19UPH610	C.P.10 – Fundamentals of Digital Electronics	4	25	75	100	3	4
		19UPH611	C.P.11 – Nuclear Physics	5	25	75	100	3	5
		19UPH6E2	Major Elective Paper 2 – Measurements & Instrumentation	4	25	75	100	3	5
		19UPH6Z1	Project***	2	20	80	100	-	5
		19UPH6CN	C.Pr.3 Practical III - General	3	40	60	100	3	2
		19UPH6CO	C.Pr.4 – Practical IV - Electronics	3	40	60	100	3	2
		19UPH6CP	C.Pr.5 – Practical V – Digital Electronics and Microprocessors	2	40	60	100	3	2
	IV	19UPH6S3	Skill Based Subject 3 – Introduction to Microprocessor	2	25	75	100	3	3
	V	19NCC/NSS/Y RC/PYE/ECC/ RRC/WEC101 #101\$\$	Extension Activities*	-	50	-	50	-	1
				30	315	635	950		33
Total				180			3800		140

Note:

- CBCS - Choice Based Credit System
- CIA - Continuous Internal Assessment
- ESE - End of Semester Examination

@ Hindi/ Malayalam/ French/ Sanskrit – 19HIN/MLM/FRN/SAN 101 - 202

* No End of Semester Examinations (ESE), only Continuous Internal Assessment (CIA)

** No Continuous Internal Assessment (CIA), only End of Semester Examinations (ESE)

UPH 4

*** Project Report - 60 marks; Viva-voce – 20 marks; Internal – 20 marks.

****The students shall undergo Internship training / field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective Faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85 – 100	O
70 – 84	D
60 – 69	A
50 – 59	B
40 – 49	C
< 40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. **Laser Physics and Fiber Optics**
2. **Measurements and Instrumentation**
3. Principles of Communication Systems
4. Renewable Energy Sources
5. Introduction to Biophysics
6. Materials Science

Non - Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Sub.Code & Title of the Extra Departmental Course (EDC)

19UPH5X1 - Physics in Everyday life

Add on course

Job Oriented Course - Electrical Appliances: Maintenance and Servicing

Advanced Learners Course - Experimental Techniques & Data Analysis

UPH 5

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note:

In core/allied subjects no. of papers in both theory and practical are included wherever applicable. However the total credits and marks for core /allied subjects remain the same as stated below.

Tally Table:

S. No	Part	Subject	Marks	Credits
1	I	Language - Tamil/Hindi/Malayalam/French/Sanskrit	400	12
2	II	English	400	12
3	III	Core- Theory / Practical's	1600	60
		Allied	400	20
		Electives / Project	300	15
4	IV	Basic Tamil /Advanced Tamil /Non-Major Elective	150	4
		Skill Based Subjects	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5	V	Extension Activities 1	50	1
Total			3800	140

- 25% of CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM- MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

UPH 6

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10) 15	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remembering; **K2**-Understanding; **K3**-Applying; **K4**-Analyzing;
K5-Evaluating

1. Theory Examination – Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(i) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

UPH 7

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

4. JOC and ALC

Section A – Multiple Choice ($10 \times 1 = 10$ marks)

Section B – Either or type ($5 \times 6 = 30$ marks)

Section C – Either or type ($5 \times 12 = 60$ marks)

UCH 1

COURSE NAME : B.Sc. Chemistry

CURRICULUM AND SCHEME OF EXAMINATIONS (CBCS) (APPLICABLE TO STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020 ONWARDS)

Semester	Part	Subject Code	Title of the Paper	Instruction	Exam Marks			Duration of Exam (Hours)	Credits
					CIA	ESE	Total		
I	I	19TML101	Language I@	6	25	75	100	3	3
	II	19ENG101	English I	6	25	75	100	3	3
	III	19UCH101	Core Chemistry Paper- I Inorganic, Organic & Physical Chemistry - I	6	25	75	100	3	5
			Core Chemistry Practical- I Inorganic qualitative analysis & Preparations	3	-	-	-	-	-
		19UMA1A2/ 19UZO1A1	Allied Mathematics Paper -I/ Allied Zoology Paper- I	7/ 5	25/ 20	75/ 55	100/7 5	3	5/ 4
			Allied Zoology Practical	2	-	-	-	-	-
	IV	18EVS101	Environmental Studies* *	2	-	50	50	3	2
II	I	19TML202	Language II@	6	25	75	100	3	3
	II	19ENG202	English II	6	25	75	100	3	3
	III	19UCH202	Core Chemistry Paper- II Inorganic, Organic & Physical Chemistry - II	6	25	75	100	3	5
		19UCH2CL	Core Chemistry Practical- I Inorganic qualitative analysis & Preparations	3	40	60	100	3	2
		19UMA2A2/ 19UZO2A2	Allied Mathematics Paper - II/Allied Zoology Paper- II	7/ 5	25/ 20	75/ 55	100/7 5	3	5/ 4
		19UZO2AL	Allied Zoology Practical	2	20	30	50	3	2
	IV	18VED201	Value Education-Moral & Ethics* *	2	-	50	50	3	2
III	I	19TML303	Language III @	6	25	75	100	3	3
	II	19ENG303	English III	6	25	75	100	3	3
	III	19UCH303	Core Chemistry Paper- III Inorganic, Organic & Physical Chemistry - III	4	25	75	100	3	4
			Core Chemistry Practical- II Inorganic volumetric and organic qualitative analysis	3	-	-	-	-	-
		19UPH3A1	Allied Physics Paper- I	4	20	55	75	3	4
			Allied Physics Practical- I	3	-	-	-	-	-

UCH 2

	IV	19UGA3S1	Skill Based Subject- I General Awareness (on line)	2	25	75	100	3	3
		18TBT301/18 TAT301/ 19UHR3N1	Basic Tamil*/ Advanced Tamil**/ Non Major elective -I **	2	75		75	3	2
IV	I	19TML404	Language IV @	6	25	75	100	3	3
	II	19ENG404	English IV	6	25	75	100	3	3
	III	19UCH404	Core Chemistry paper- IV Inorganic, Organic & Physical Chemistry - IV	4	25	75	100	3	4
		19UCH4CM	Core Chemistry Practical- II Inorganic volumetric and organic qualitative analysis	3	40	60	100	6	3
		19UPH4A2	Allied Physics Paper- II	5	20	55	75	3	4
		19UPH4AL	Allied Physics Practical -I	2	20	30	50	3	2
	IV	19UCH4S2	Skill Based Subject -II Water pollution and management	2	25	75	100	3	3
	IV	18TBT402/18 TAT402/ 18UWR4N2	Basic Tamil*/ Advanced Tamil**/ Non Major elective – II**	2		75	75	3	2
V	III	19UCH505	Core Chemistry Paper –V Spectroscopy	3	25	75	100	3	3
		19UCH506	Core Chemistry Paper –VI Inorganic Chemistry	4	25	75	100	3	4
		19UCH507	Core Chemistry Paper –VII Organic reaction mechanism	4	25	75	100	3	4
		19UCH508	Core Chemistry Paper –VIII Physical Chemistry - I	4	25	75	100	3	4
		19UCH5E1	Major Elective -I	3	25	75	100	3	5
		19UCH6CN	Core Chemistry Practical -III Gravimetric Analysis	3	-	-	-	-	-
		19UCH6CO	Core Chemistry Practical–IV Physical Chemistry Experiments	4	-	-	-	-	-
		19UCH6CP	Core Chemistry Practical –V Application Oriented practical	3	-	-	-	-	-
	IV	19UCH5X1	EDC - Chemistry in day today life	2	25	75	100	3	3
	-	19UCH5IT	Internship training****	Grade					

UCH 3

VI	III	19UCH609	Core Chemistry Paper-IX Solid State And Coordination Chemistry	4	25	75	100	3	4
		19UCH610	Core Chemistry Paper-X Chemistry Of Natural Products	5	25	75	100	3	4
		19UCH611	Core Chemistry Paper-XI Physical Chemistry - II	4	25	75	100	3	4
		19UCH6E1	Major Elective – II	3	25	75	100	3	5
		19UCH 6Z1	Project***	2	20	80	100	-	5
		19UCH6CN	Core Chemistry Practical- III Gravimetric Analysis	3	40	60	100	3	3
		19UCH6CO	Core Chemistry Practical-IV Physical Chemistry Experiments	3	40	60	100	3	3
		19UCH6CP	Core Chemistry Practical –V Application Oriented practicals	4	40	60	100	3	4
	IV	19UCH6S3	Skill Based Subject- III Food chemistry	2	25	75	100	3	3
	V	19NCC/NSS/Y RC/ PYE101	Extension Activities #	-	50	-	50	-	1
Grand total				-	-	-	3000	-	140

Note

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

@ Hindi / Malayalam / French / Sanskrit – 19HIN/MLM/FRN/SAN101-202

* No End of Semester Examinations (ESE). Only Continuous Internal Assessment (CIA).

** No Continuous Internal Assessment (CIA). Only End of Semester Examinations (ESE).

*** Project Report – 60 marks; Viva-voce – 20 marks; Internal – 20 marks

**** The students shall undergo an internship training/ field work for a minimum period of two weeks at the end of the 4th semester during summer vacation and submit the report in the fifth semester. The Report will be evaluated for 100 Marks along with the internal viva voce by the respective faculty. According to the marks grades will be awarded as given below

UCH 4

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

MAJOR ELECTIVE PAPERS

(Two papers are to be chosen from the following four papers.)

1. Polymer technology
2. Nano and green Chemistry
3. Pharmaceutical Chemistry
4. Agricultural Chemistry
5. Dairy Chemistry
6. Leather Chemistry

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer awareness

Sub. Code & Title of the Extra Departmental Course (EDC) :

19UCH5X1 - Chemistry in day today life

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

UCH 5

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical	1600	60
		Allied	400	20
		Electives/Project	300	15
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major electives	150	4
		Skill Based subject	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
		Total	3800	140

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

UCH 6

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75	15	
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remembering; K2-Understanding; K3-Appling; K4-Analyzing; K5-Evaluating

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5			

UCH 8

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report Viva voce	60	80
K4		20	
K5			

UBO1

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COIMBATORE – 641 029

Course Name: B.Sc., Botany

Curriculum and Scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2019-2020)

Semester	Part	Subject code	Title of the Paper	Instruction Hours / Cycle	Exam. Marks			Duration of Exam.(hours)	Credit
					CIA	ESE	Total		
I	I	19TML101	Part-I -Lang. -Tamil-I /Hindi-I/French -I / Malayalam -I/ Sanskrit-I	6	25	75	100	3	3
	II	19ENG101	Part - II - English - I	6	25	75	100	3	3
	III	19UBO101	C.P.1- Plant Diversity - I	7	25	75	100	3	5
		19UZO1A1	Allied -1 Zoology - I	5	20	55	75	3	4
			C.Pr.1 - Plant Diversity - I	2	-	-	-	-	-
			Allied Pr. Zoology - I	2	-	-	-	-	-
	IV	19EVS101	Environmental studies**	2	-	50	50	3	2
	Total			30	-	-		-	
II	I	19TML202	Part - I- Tamil-II /Hindi-II /French-II / Malayalam-II / Sanskrit - II	6	25	75	100	3	3
	II	19ENG202	Part- II- English - II	6	25	75	100	3	3
	III	19UBO202	C.P.2 - Plant Diversity - II	7	25	75	100	3	5
		19UZO2A2	Allied - 2 Zoology - II	5	20	55	75	3	4
		19UBO2CL	C.Pr.1 - Plant Diversity I & II	2	40	60	100	3	2
		19UZO2AL	Allied. Pr. Zoology - I & II	2	20	30	50	3	2
	IV	19VED201	Value Education - Moral and Ethics**	2	-	50	50	3	2
	Total			30	-	-		-	
III	I	19TML303	Part-I-Tamil-III /Hindi- III / French- III / Malayalam - III / Sanskrit - III	6	25	75	100	3	3
	II	19ENG303	Part - II -Lang. - English - III	6	25	75	100	3	3
	III	19UBO303	C.P. 3 - Anatomy, Embryology of Angiosperms and Microtechniques	5	25	75	100	3	4
		19UCH3A3	Allied - 3 - Chemistry - 1	5	20	55	75	3	4
			C. Pr. 2. - Anatomy, Embryology of Angiosperms and Microtechniques	2	-	-	-	-	-
			Allied - Pr. - Chemistry	2	-	-	-	-	-
	IV	19UGA3S1	Skill based subject -I General awareness	2	25	75	100	3	3
		19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil* / Advanced Tamil**/ Non Major Elective - I**	2	-	75	75	3	2
	Total			30	-	-		-	
IV	I	19TML404	Part-I-Tamil-IV / Hindi-IV / French - IV/ Malayalam - IV / Sanskrit - IV	6	25	75	100	3	3
	II	19ENG404	Part-- II -Lang - English IV	6	25	75	100	3	3

UBO2

	III	19UBO404	C.P.4- Biophysics and Biostatistics	5	25	75	100	3	4
		19UCH4A4	Allied 4 - Chemistry - 2	5	20	55	75	3	4
		19UBO4CM	C. Pr.2- Anatomy, Embryology of Angiosperms, Microtechniques, Biophysics & Biostatistics	2	40	60	100	3	2
		19UCH4AL	Allied Pr. Chemistry	2	20	30	50	3	2
	IV	19UBO4S2	Skill based subject-II Horticulture	2	25	75	100	3	3
		19TBT401/19TAT402	Basic Tamil*/Advanced Tamil**/Non Major Elective-II **	2	-	75	75	3	2
		19UWR4N2							
		Total		30	-	-		-	
V	III	19UBO505	C.P. 5 - Bioinstrumentation	4	25	75	100	3	4
		19UBO506	C.P. 6 - Taxonomy of Angiosperms and Economic Botany	4	25	75	100	3	5
		19UBO507	C.P.7 - Cytology, Genetics and Plant Breeding	4	25	75	100	3	5
		19UBO508	C.P. 8 - Plant Ecology, Phytogeography and Resource Conservation	4	25	75	100	3	5
		19UBO5E1	Elective - I	4	25	75	100	3	5
		19UBO5CN	C.Pr.3 – Bioinstrumentation, Cytology, Genetics and Plant Breeding,	4	40	60	100	3	2
			C.Pr. 4 - Taxonomy of Angiosperms, Economic Botany, Plant Ecology, Phytogeography and Resource Conservation	4	-	-	-	-	-
	IV	-	EDC - Extra Departmental course	2	25	75	100	3	3
	-	19UBO5IT	Internship Training	Grade****					
		Total		30	-	-		-	
VI	III	19UBO609	C.P.9 – Biochemistry and Bioinformatics	6	25	75	100	3	4
		19UBO610	C.P.10 - Plant Physiology	6	25	75	100	3	5
		19UBO611	C.P.11- Microbiology and Plant Pathology	6	25	75	100	3	4
		19UBO6CO	C.Pr. 4- Taxonomy of Angiosperms, Economic Botany, Plant Ecology, Plant Phytogeography and Resource Conservation	-	40	60	100	3	2
		19UBO6CP	C. Pr. 5 – Biochemistry, Bioinformatics, Plant physiology, Microbiology and Plant Pathology	4	40	60	100	3	2
		19UBO6E2	Elective- II	4	25	75	100	3	5
		19BO6Z1	Project***	2	20	80	100	-	5
	IV	19UBO6S3	Skilled Based Subject III- Cultivation and Marketing of Medicinal Plants	2	25	75	100	3	3
			Total	30	-	-		-	
	V	19NCC/NSS/ YRC /PYE101	Extension activity *	-	50	-	50	-	1
Grand Total							3800		140

Note :

- CBCS – Choice Based Credit system
CIA – Continuous Internal Assessment
ESE – End of Semester Examinations

@ Hindi/Malayalam/ French/ Sanskrit - 13HIN/MLM/FRN/SAN101 - 202

- * - No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)
**- No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)
***- Project Report - 60 marks; Viva-voce - 20 marks; Internal - 20 marks

****-The students shall undergo an Internship training/field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective Faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Forestry
2. Biotechnology
3. Food science
4. Seed biology
5. Pharmacognosy
6. Mushroom cultivation Technology

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer affairs

Sub code & Title of the Extra Departmental Course (EDC)

19UBO5X1 - Medicinal Botany and Human Welfare

UBO4

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core/allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table:

S. No.	Part	Subject	Marks	Credits
1.	I	Language - Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core - Theory/Practical/Project	1700	65
		Allied	400	20
		Elective	200	10
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major electives	150	4
		Skill Based subject	300	9
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extra Departmental Course (EDC)	100	3
		Extension Activities	50	1
		Total	3800	140

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Certificate Course

- **Bonsai**

Semester	Subject Code	Title of the Paper	Instruction hours /cycle	Exam Marks			Duration of Exam (hours)	Credits
				CIA	ESE	Total		
	19CCB101	C.P.1- Introduction to Bonsai Principles and Techniques	2	25	75	100	3	2
	19CCB102	C.P.2- Ethics, Values and Marketing of Bonsai	2	25	75	100	3	2
	19CCB1CL	C.Pr.1. Bonsai Techniques	2	40	60	100	3	2
	19PDB2Z1	Project	2	20	80	100	3	2
		Grand Total	8			400		8

Components of Continuous Internal Assessment (CIA)

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10) 15	25
CIA II	75		
Assignment / Seminar		5	
Attendance		5	
Practical			40
CIA Practical		25	
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN**K1** - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

+

1. Theory Examination - Part I, II & III**(i) CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments & Record Work	50	60
K4		10	
K5			

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report & Viva voce	60	80
K4		20	
K5			

UZO 1
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029

Course Name: **B.Sc., ZOOLOGY**

Curriculum and Scheme of Examinations under CBCS

(Applicable to students Admitted from the Academic Year **2019 – 2020**)

Scheme of Examinations (With 4 Sem Language Papers)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam (hours)	Credits
					CIA	ESE	TOTAL		
SEMESTER - I									
I	I	19TML101	Language I@	6	25	75	100	3	3
	II	19ENG101	English –I	6	25	75	100	3	3
	III	19UZO101	Core Paper 1–Invertebrata	7	25	75	100	3	5
	III	19UZO1I1 19UBO1A1	Allied A Paper 1- Sericulture I / Botany I	5	20	55	75	3	4
			Core Practical. 1- Invertebrata and Chordata	2	-	-	-	-	-
			Allied Practical. 1. Sericulture	2	-	-	-	-	-
	IV	19EVS101	Environmental Studies**	2	-	50	50	3	2
			Total	30			425		17
SEMESTER - II									
II	I	19TML202	Language II@	6	25	75	100	3	3
	II	19ENG202	English –II	6	25	75	100	3	3
	III	19UZO202	Core Paper 2 –Chordata	7	25	75	100	3	5
	III	19UZO2I2 19UBO2A2	Allied A Paper 2- Sericulture II / Botany II	5	20	55	75	3	4
		19UZO2CL	Core Practical. 1- Invertebrata and Chordata	2	40	60	100	3	2
		19UZO2IL 19UBO2AL	Allied A Practical 1. Sericulture /Botany	2	20	30	50	3	2
	IV	19VED201	Value Education- Moral and Ethics **	2	-	50	50	3	2
			Total	30			575		21

UZO 2

SEMESTER - III									
III	I	19TML303	Language III@	6	25	75	100	3	3
	II	19ENG303	English –III	6	25	75	100	3	3
	III	19UZO303	Core Paper 3– Cell and Molecular Biology	5	25	75	100	3	5
	III	19UBC 3A3	Allied B paper 1- Biochemistry	5	20	55	75	3	4
			Core Practical 2- Cell Biology and Physiology	2	-	-	-	-	-
			Allied B Practical 2. Biochemistry	2	-	-	-	-	-
	IV	19UGA3S1	Skill Based subject 1- General Awareness	2	25	75	100	3	3
	IV	19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil* / Advanced Tamil** (OR) Non-major elective- I**- Human rights	2	-	75	75	3	2
			Total	30			550		20
SEMESTER - IV									
IV	I	19TML404	Language IV@	6	25	75	100	3	3
	II	19ENG404	English –IV	6	25	75	100	3	3
	III	19UZO404	Core Paper 4– Physiology	5	25	75	100	3	5
	III	19UBC4A4	Allied B paper 2- Biochemistry	5	20	55	75	3	4
		19UZO4CM	Core Practical 2- Cell Biology and Physiology	2	40	60	100	3	2
		19UBC4AL	Allied B Practical-1. Biochemistry	2	20	30	50	3	2
	IV	19UZO4S2	Skill Based subject 2- Health education	2	25	75	100	3	3
	IV	19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil* / Advanced Tamil** (OR) Non-major elective- II**- Women's rights	2	-	75	75	3	2
			Total	30			700		24
SEMESTER - V									
v	III	19UZO505	Core Paper 5- Genetics	5	25	75	100	3	4
	III	19UZO506	Core Paper 6- Evolution	5	25	75	100	3	4
	III	19UZO507	Core Paper 7–Ecology	5	25	75	100	3	4
	III	19UZO508	Core Paper 8–Biostatistics and Bioinformatics	5	25	75	100	3	4

UZO 3

			Core Practical 3: Evolution, Microbiology and Immunology and Biotechnology	2	-	-	-	-	-
			Core Practical 4: Ecology, Developmental Biology and Animal Diversity	2	-	-	-	-	-
	III	19UZO5E1	Major Elective -1	4	25	75	100	3	5
	IV	19UBC/UBT/UBO – 5X1	EDC-Extra Departmental Course	2	25	75	100	3	3
		19UZO5IT	Internship						Grade
			Total	30			600		24
SEMESTER - VI									
VI	III	19UZO609	Core Paper 9 –Microbiology and Immunology	4	25	75	100	3	4
	III	19 UZO610	Core Paper 10 – Biotechnology	5	25	75	100	3	4
	III	19UZO611	Core Paper 11 – Developmental Biology	5	25	75	100	3	4
	III	19 UZO612	Core Paper 12 – Biodiversity and Animal behaviour	4	25	75	100	3	4
		19UZO 6CN	Core Practical 3: Evolution, Microbiology and Immunology and Biotechnology	2	40	60	100	3	2
		19UZO 6CO	Core Practical 4: Ecology, Developmental Biology and Biodiversity and Animal behaviour	2	40	60	100	3	2
	III	19UZO6E2	Major Elective 2	3	25	75	100	3	5
	III	19UZO6Z1	Project	3	20	80	100	3	5
	IV	19UZO6S4	Skill Based subject-3 Commercial fish culture	2	25	75	100	3	3
	V	\$\$	Extension Activities*	-	50	-	50	-	1
			Total	30			950		34
			Grand Total				3800		140

UZO 4

Note:

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End of Semester Examination

@ Hindi/Malayalam/ French/ Sanskrit – 12HIN/MLM/FRN/SAN101 - 404

* - No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

** - No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal – 20 marks

**** The students shall undergo an internship training / field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100marks alone with the internal viva voce by the respective faculty.

According to their, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Wild life Ecology and Management
2. Poultry science and management
3. Economic Zoology
4. Pests and their Management
5. Vermitechnology
6. Human genetics and Counselling

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

UZO 5

Extra Departmental Course (EDC)

1. Ornamental Fishery Technology

Extension Activities :

NCC – National Cadet Corps
 NSS – National Service Scheme
 YRC – Youth Red Cross
 PYE – Physical Education
 ECC – Eco Club
 RRC – Red Ribbon Club
 WEC – Women Empowerment Cell

Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical/Project	1700	65
		Allied	400	20
		Electives	200	10
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major elective	150	4
		Skill Based subject	400	12
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities NCC/NSS/YRC/PYE	50	1
		Total	3800	140

UZO 6

- 25 % CIA is applicable to all theory subjects except JOC, COP and Diploma Courses, which are considered as extra credit courses.
- The student are advised to complete a SWAYAM – MOOC before the complection of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A field trip preferably relevant to the course should be undertaken every year

Components of Continuous Internal Assessment

Components		Marks	Total
Theory CIA 1	75	75+75=150/10	25
		15	
	Assignment / Seminar	5	
	Attendance	5	
Practical CIA Practical		25	40
	Observation Notebook	10	
	Attendance	5	
Project Review		15	20
	Regularity	5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1- Remembering; K2-Understanding; K3- Appling K4- Analyzing; k5 – Evaluating

1. Theory Examination – Part I, II and III

(i) CIA I & II and ESE: 75 Marks

Knowledge level	Section	Marks	Description	Total
K1 Q 1 to 10	A (Answer all)	10X1=10	MCQ	75
K2 Q 11 to 15	B (Either or Pattern)	5X5 = 25	Short Answer	
K3 & K4 Q 16 to 20	C (Either or Pattern)	5X8 = 40	Descriptive/ Detailed	

UZO 7

(ii) CIA I & II and ESE : 55 Marks

Knowledge level	Section	Marks	Description	Total
K1 Q 1 to 10	A (Answer all)	10X1=10	MCQ	55
K2 Q 11 to 15	B (Either or Pattern)	5X3 = 15	Short Answer	
K3 & K4 Q 16 to 20	C (Either or Pattern)	5X6 = 30	Descriptive/ Detailed	

2. Practical Examination:

Knowledge level	Section	Marks	Total
K3	Experiments Record Work	50	60
K4		10	
K5			

3. Project Viva-Voce :

Knowledge level	Section	Marks	Total
K3	Project Report Viva-Voce	60	80
K4		20	
K5			

UBC-1
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
 Re-accredited by NAAC with „A“ Grade Status – 3.64 CGPA (3rd Cycle)
 College of Excellence (UGC)
 Coimbatore - 641029.Tamil Nadu, India

Course Name: B.Sc. Biochemistry
Curriculum and Scheme of Examination under CBCS
(Applicable to Students Admitted for the Academic Year 2019-2020)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam (hours)	Credits
					CIA	ESE	TOTAL		
I	I	19TML101	Language I@	6	25	75	100	3	3
	II	19ENG101	English –I	6	25	75	100	3	3
	III	19UBC101	C.P.1 Chemistry of Biomolecules	7	25	75	100	3	6
		-	C. Pr. I - Biochemistry	2	-	-	-	-	-
		19UZO1A1	Allied A1- Zoology I	5	20	55	75	3	4
		-	A. Pr. 1 Zoology	2	-	-	-	-	-
	IV	19EVS101	Environmental Studies**	2	-	50	50	3	2
II	I	19TML202	Language II@	6	25	75	100	3	3
	II	19ENG202	English –II	6	25	75	100	3	3
	III	19UBC202	C.P.2 Bioanalytical Techniques	7	25	75	100	3	6
		19UBC2CL	C.Pr. 1 Biochemistry	2	40	60	100	3	2
		19UZO2A2	Allied A. 2 Zoology II	5	20	55	75	3	4
		19UZO2AL	A. Pr. 1 Zoology	2	20	30	50	3	2
	IV	19VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2
III	I	19TML303	Language III@	6	25	75	100	3	3
	II	19ENG303	English –III	6	25	75	100	3	3
	III	19UBC303	C. P. 3 – Enzymes and Enzyme Technology	4	25	75	100	3	5
		-	C.Pr. 2 Biochemistry	3	-	-	-	-	-
		19UCH3A3	Allied B. 1. Chemistry I	5	20	55	75	3	4
		-	A.Pr.2 Chemistry	2	-	-	-	-	-
	IV	19UGA3S1	Skill Based Subject 1- General Awareness	2	25	75	100	3	3
		19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil* Advanced Tamil** (OR) Non-Major Elective- I**	2	75		75	3	2
IV	I	19TML404	Language IV@	6	25	75	100	3	3
	II	19ENG404	English –IV	6	25	75	100	3	3
	III	19UBC404	C. P. 4 Intermediary Metabolism	4	25	75	100	3	4
		19UBC4CM	C. Pr.2. Biochemistry	3	40	60	100	3	2
		19UCH4A4	Allied B.2 Chemistry II	5	20	55	75	3	4
		19UCH4AL	A. Pr.2. Chemistry	2	20	30	50	3	2

UBC-2

	IV	19UBC4S2	Skill Based Subject 2- Common Human Diseases	2	25	75	100	3	3
		19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil*/ Advanced Tamil** (OR) Non-Major Elective- II**	2	75	75	75	3	2
V	III	19UBC505	C.P.5 Human Physiology	4	25	75	100	3	4
		19UBC506	C.P.6 Basic Biotechnology	4	25	75	100	3	4
		19UBC507	C.P.7 Clinical Biochemistry	4	25	75	100	3	4
		19UBC508	C.P.8 Molecular Biology	4	25	75	100	3	4
	III	19UBC5E1	Major Elective I	4	25	75	100	3	5
	III	-	C.Pr.3. Biochemistry	4	-	-	-	-	-
		-	C.Pr.4. Biochemistry	2	-	-	-	-	-
		-	C.Pr.5. Biochemistry	2	-	-	-	-	-
	IV	19UBO/UZ O/ UBT5X1	Extra Departmental Course	2	25	75	100	3	3
	-	19UBC5IT	Internship Training	Grade ****					
VI	III	19UBC609	C.P.9 Plant Biochemistry	4	25	75	100	3	4
		19UBC610	C.P.10 Immunology and Immuno Techniques	4	25	75	100	3	4
		19UBC611	C.P.11 Genetic Technology	4	25	75	100	3	4
	III	19UBC6E2	Major Elective II -	4	25	75	100	3	5
		19UBC6Z1	Project ***	4	20	80	100	-	5
	III	19UBC6CN	C.Pr.3. Biochemistry	4	40	60	100	6	3
		19UBC6CO	C.Pr.4. Biochemistry	2	40	60	100	4	2
		19UBC6CP	C.Pr.5. Biochemistry	2	40	60	100	4	2
	IV	19UBC6S3	Skill Based Subject 3- Techniques in Genomics and Proteomics	2	25	75	100	3	3
	V	19NCC / NSS / YRC / PYE101	Extension Activities *	-	50	-	50	-	1
Total				180			3800		140

@

Hindi/Malayalam/ French/ Sanskrit – 19HIN/19MLM/19FRN/19SAN101 - 404 * -

No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA) ** -

No Continuous Internal Assessment. Only End-of-Semester Examinations (ESE)

***- Project Report – 60 marks; Viva voce – 20 marks; Internal – 20 marks

****- The students shall undergo an Internship training/field work for minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective faculty. According to their marks, the grades will be awarded as given below.

Marks%	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

UBC-3

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Biopharmaceuticals
2. Advanced Clinical Biochemistry
3. Principles of Pharmacology
4. Basics of Bioinformatics
5. Dairy Biochemistry

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer affairs

List of Extra Departmental Courses

1. 19UBO5X1 Medicinal botany
2. 19UZO5X1 Ornamental fish culture technology
3. 19UBT5X1 Molecular diagnostics

Certificate Course

1. Mushroom Technology

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical/Project	1700	65
		Allied (4)	400	20
		Major Electives (2)	200	10
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major electives	150	4
		Skill Based subjects (3)	300	9
		Extra Departmental Course	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities NCC/NSS/YRC/PYE	50	1
		Total	3800	140

Note :

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

UBC- 4

ESE – End of Semester Examinations

25 % CIA is applicable to all theory subjects except JOC, COP and Diploma Courses, which are considered as extra credit courses.

UBT01

KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)
COIMBATORE-641 029.

B.Sc. BIOTECHNOLOGY

Curriculum & Scheme of Examination under CBCS

(Applicable to Students Admitted from the Academic Year 2019-2020 and onwards)

Semester	Part	Subject Code	Title of the Paper	Instruction Hours / cycle	Exam. Marks			Duration of Exam. Hrs.	Credits
					CI A	ESE	Total		
I	I	19TML101 [@]	Language I	6	25	75	100	3	3
	II	19ENG101	English I	6	25	75	100	3	3
	III	19UBT101	C.P.1 – Cellular Biology	4	25	75	100	3	4
		19UBT102	C.P.2. - Bioinstrumentation and Environmental Biotechnology	4	25	75	100	3	4
		19UCH1A1	Allied - Paper 1: Chemistry – I	4	20	55	75	3	4
		19UBT1CL	C.Pr.1 – Lab in Cellular Biology and Bioinstrumentation	2	20	30	50	3	2
		19UCH1AL	Allied Pr.1 - Chemistry Practical	2	-	-	-	-	-
	IV	19EVS101	Environmental Studies*	2	95	50	50	3	2
	Total			30			575	-	22
II	I	19TML202 [@]	Language II	6	25	75	100	3	3
	II	19ENG202	English II	6	25	75	100	3	3
	III	19UBT203	C.P.3. – Microbiology	6	25	75	100	3	4
		19UCH2A2	Allied - Paper 2: Chemistry – II	5	20	55	75	3	4
		19UBT2CM	C.Pr.2- Lab in Microbiology	3	20	30	50	3	2
		19UCH2AL	Allied Pr.1 - Chemistry Practical	2	20	30	50	3	2
	IV	19VED201	Value Education - Moral and Ethics*	2	-	50	50	3	2
	Total			30			525	-	20
III	I	19TML303 [@]	Language III	6	25	75	100	3	3
	II	19ENG303	English III	6	25	75	100	3	3
	III	19UBT304	C.P.4 – Molecular Biology	4	25	75	100	3	4
		19UBT305	C.P.5 – Genetics	4	25	75	100	3	4
		19UBT3A3	Allied - Paper 3 : Basic Mathematics and Statistics	4	20	55	75	3	4
		19UBT3CN	C.Pr.3- Lab in Molecular Biology and Genetics	2	20	30	50	3	2
	IV	19UGA3S1	Skill Based Subject: 1 General Awareness	2	25	75	100	3	3
		19TBT301/ 19TAT301/ 19UCA3N1	Basic Tamil* / Advanced Tamil** / Non Major Elective-I****	2	-	75	75	3	2
	Total			30			700	-	25

IV	I	19TML404 [®]	Language	6	25	75	100	3	3
	II	19ENG404	English IV	6	25	75	100	3	3
	III	19UBT406	C.P.6 – Fundamentals of Biochemistry	5	25	75	100	3	4
		19UBT4CO	C.Pr.4- Lab in Biochemistry	3	20	30	50	3	2
		19UBT4A4	Allied - Paper 4 : C - Programming and Numerical Methods	4	20	55	75	3	4
		19UBT4AL	Allied Pr. 1 – Lab in C-Programming	2	20	30	50	3	2
	IV	19UBT4S2	Skill Based Subject: 2 – Clinical LabTechnology – I – Pathology	2	25	75	100	3	3
		19TBT402/ 19TAT402/ 19UCA4N1	Basic Tamil* / Advanced Tamil** / Non Major Elective - II****	2	-	75	75	3	2
	Total			30	-	-	650	-	23
V	III	19UBT507	C.P.7- Immunology	6	25	75	100	3	4
		19UBT508	C.P.8- Recombinant DNA Technology	6	25	75	100	3	4
		19UBT509	C.P.9 - Animal Biotechnology	5	25	75	100	3	4
		19UBT5CP	C.Pr.5 – Lab in Immunology, Recombinant DNA Technology and Animal Biotechnology	6	40	60	100	4	3
		19UBT5E1	Major Elective - I	5	25	75	100	3	5
	IV	19UBO5X1/ 19UBC5X1/ 19UZO5X1	Extra Departmental Course (EDC) – 1	2	25	75	100	3	3
		19UBT5ST	Summer Internship ****	-	-	-	-	-	-
	Total			30	-	-	600	-	23
VI	IV	19UBT610	C.P.10 - Bioprocess technology	5	25	75	100	3	4
		19UBT611	C.P.11 - Plant Biotechnology	5	25	75	100	3	4
		19UBT612	C. P. 12–Genomics, Proteomics and Bioinformatics	5	25	75	100	3	4
		19UBT6CQ	C.Pr.6- Lab in Bioprocess technology, Plant Biotechnology and Bioinformatics	5	40	60	100	4	3
		19UBT6E2	Major Elective – II	5	25	75	100	3	5
		19UBT6Z1	Practicum and Viva - Voce****	3	20	80	100	3	3
	V	19UBT6S3	Skill Based Subject: 3 – Clinical Lab Technology – II – Hematology	2	25	75	100	3	3
		19UBT5SL	Skill Based Subject: 4 – Practical Clinical Lab Technology¥	-	-	-	-	-	-
	VI	19NSS101/ 19NCC101/ 19PYE101/ 19YRC101 [#]	Extension Activities**	-	50	-	50	-	1
		Total			30	-	-	750	-
Grand Total				180			3800	-	140

@ French/Hindi/Malayalam/Sanskrit

* No End of Semester Examinations (ESE). Only Continuous Internal Assessment (CIA)

** No Continuous Internal Assessment (CIA). Only End of Semester Examinations (ESE)

*** Non Major Elective subjects; No CIA examination. Only ES Examinations

UBT03

**** Practicum – 60 marks; Viva-voce – 20 marks; Internal – 20 marks

**** The students shall undergo an Internship training/field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the faculty members and HoD. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers (2 papers are to be chosen from the following 6 papers)

1. Research Methodology and Biostatistics
2. Bioentrepreneurship
3. Bionanotechnology, IPR and Biosafety
4. Natural Products and Algal Biotechnology
5. Enzyme Technology
6. Developmental Biology

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Skill Based Subjects

1. General Awareness (On-line Examination)
2. Clinical Lab Technology – I: Pathology
3. Clinical Lab Technology – II: Hematology
4. Practical: Clinical Lab Technology[¥]

[¥]The students shall attend the practical during fourth semester through the MoU signed between College and reputed Clinical laboratory and submit the practical record book and report. The report will be evaluated for 100 marks along with the internal viva voce by the faculty members and HoD. According to their marks, the grades will be awarded in the mark sheet as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

UBT04**List of Extra Departmental Courses (EDC)**

S. No.	Subject code	Subject	Offering Department
1.	19UBC5X1	Diagnostic Biochemistry	Biochemistry
2.	19UBO5X1	Medicinal Botany	Botany
3.	19UZO5X1	Ornamental Fish Culture Technology	Zoology

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Job Oriented Courses (JOC)

1. Clinical Research and Medical Coding (19UBT0J1)
2. Agro Industrial biotechnology (19UBT0J2)

Note: JOC which are offered at present will be applicable for the students admitted during the academic year 2019-2020 and will be considered as extra credit courses.

Tally Table:

S. No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/French/Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical/Project	1700	65
		Allied	400	20
		Electives	200	10
4.	IV	Basic Tamil/Advanced Tamil/Non-major elective	150	4
		Skill Based Subjects	300	9
		Extra Departmental Course (EDC)	100	3
		Environmental studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
Total			3800	140

Note: CBCS – Choice Based Credit System; CIA – Continuous Internal Assessment
ESE – End of Semester Examinations

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

UBT05**Components of Continuous Internal Assessment**

Components			Marks	Total
Theory	CIA 1	75	(75+75 = 150/10) 15	25
	CIA 2	75		
	Assignment/ Demonstration/Seminar		5	
	Attendance		5	
Practical	CIA Practical		10	20
	Observation Notebook		5	
	Attendance		5	
Practical	CIA Practical		25	40
	Observation Notebook		10	
	Attendance		5	
Practicum Review			15	20
Regularity			5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN
K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

1. Theory Examination - Part I, II & III**(i) CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	$10 \times 1 = 10$	MCQ	75
K2 Q11 to 15	B (Either or pattern)	$5 \times 5 = 25$	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	$5 \times 8 = 40$	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	$10 \times 1 = 10$	MCQ	55
K2 Q11 to 15	B (Either or pattern)	$5 \times 3 = 15$	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	$5 \times 6 = 30$	Descriptive / Detailed	

UBT06

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	25	30
K4		05	
K5	Record Work		

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Practicum and Viva - Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE - 641 029.

B.Sc. COMPUTER SCIENCE
Curriculum and Scheme of Examination under CBCS

(APPLICABLE TO STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020 & Onwards)

Semester	Part	Subject code	Title of the Paper	Instruction Hours / Cycle	Exam. Marks			Duration of Exam.(hours)	Credits
					CIA	ESE	Total		
I	I	19TML1A1	Language 1@	6	25	75	100	3	3
	II	19ENG101	English I	6	25	75	100	3	3
	III	19UCS101	C.P.1 – COBOL Programming	4	25	75	100	3	4
		19UCS1CL	C.Pr.1 – COBOL Programming - Lab	6	40	60	100	3	2
		19UCS1A1	Allied 1 –Discrete Mathematics and Statistics	6	25	75	100	3	5
	IV	19EVS101	Environmental Studies **	2	-	50	50	3	2
	Total Instruction Hours			30			550		19
II	I	19TML2A2	Language II@	6	25	75	100	3	3
	II	19ENG202	English II	6	25	75	100	3	3
	III	19UCS202	C.P.2 - C Programming	4	25	75	100	3	4
		19UCS2CM	C.Pr.2 – C Programming - Lab	6	40	60	100	3	2
		19UCS2A2	Allied 2 –Operations Research	6	25	75	100	3	5
	IV	19VED201	Value Education – Moral and Ethics **	2	-	50	50	3	2
	Total Instruction Hours			30			550		19
III	III	19UCS303	C.P.3 - Data Structures	5	25	75	100	3	4
		19UCS304	C.P.4 – Operating Systems	5	25	75	100	3	4
		19UCS305	C.P.5 -Object Oriented Programming with C++	5	25	75	100	3	5
		19UCS3CN	C.Pr.3 – Object Oriented Programming with C++ - Lab	6	40	60	100	3	2
		19UCS3A3	Allied 3 –Business Accounting	5	25	75	100	3	5
	IV	19UCS3S1	Skill Based Subject 1 - PHP Programming	2	25	75	100	3	3
		19TBT301 / 19TAT301 / 19UHR3N1	Basic Tamil */ Advanced Tamil **/ Non-Major Elective 1-Human Rights**	2	—	75	75	3	2
	Total Instruction Hours			30			675		25

IV	III	19UCS406	C.P.6 – Database Management System	5	25	75	100	3	4
		19UCS407	C.P.7 – Software Engineering and Testing	5	25	75	100	3	4
		19UCS408	C.P.8 – Visual Basic and Oracle	5	25	75	100	3	5
		19UCS4CO	C.Pr.4 – Visual Basic and Oracle Lab	6	40	60	100	3	2
		19UCS4A4	Allied 4 –Digital Principles and Computer System Architecture	5	25	75	100	3	5
	IV	19UCS4SL	Skill Based Subject 2 – PHP Programming Lab	2	40	60	100	3	3
		19T BT402 / 19T AT402 / 19UWR4N2	Basic Tamil*/ Advanced Tamil** / Non-Major Elective 2-Women’s Rights**	2	—	75	75	3	2
	Total Instruction Hours			30			675		25
V	III	19UCS509	C.P.9 – Systems Software	6	25	75	100	3	4
		19UCS510	C.P.10 – Java Programming	5	25	75	100	3	5
		19UCS5CP	C.Pr.5 – Java Programming -Lab	6	40	60	100	3	2
		19UCS511	C.P.11 – Data Communication and Networking	6	25	75	100	3	4
		19UCS5E1	Major Elective I	5	25	75	100	3	5
	IV	-	EDC – Web Designing using HTML	2	40	60	100	3	3
	-	19UCS5IT	Internship Training ****	Grade					
	Total Instruction Hours			30			600		23
VI	III	19UCS612	C.P.12 – Artificial Intelligence	4	25	75	100	3	4
		19UCS613	C.P.13 – Python Programming	4	25	75	100	3	4
		19UCS6CQ	C.Pr.6 – Python Programming Lab	6	40	60	100	3	2
		19UCS614	C.P.14 – Information Security	5	25	75	100	3	5
		19UCS6E2	Major Elective II	5	25	75	100	3	5
		19UCS6Z1	Project Work and Viva-Voce ***	4	20	80	100	3	5
	IV	19UCS6SM	Skill Based Subject 3 – Software Testing Lab	2	40	60	100	3	3
	Total Instruction Hours			30			700		28
	V	19NCC/NSS/YRC/PYE/EC C/RRC/WEC 101#	Extension Activities *	-	50	-	50	-	1
GRAND TOTAL				180			3800		140

Note:

- CBCS - Choice Based Credit System
 CIA - Continuous Internal Assessment
 ESE - End of Semester Examinations

@ Hindi/Malayalam/ French/Sanskrit – 19HIN/MLM/FRN/SAN101-202.

* No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA).

** No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE).

*** Project Report- 60 Marks; Viva-Voce-20 Marks; Internal-20 Marks.

**** Aptitude and Logical Reasoning: The Written examination will be conducted and evaluated for 100 marks. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Cloud Computing
2. Network Security
3. Embedded Systems
4. Big Data Analytics
5. Mobile Computing
6. Internet of Things

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Subject Code and Title of the Extra Departmental Course (EDC)

19UCS5X1 - Web Designing using HTML

List of Extension Activities

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In Core/Allied Subjects, No. of papers both Theory and Practical are included wherever applicable. However, the total credits and marks for Core/Allied subjects remain the same as stated below.

Tally Table:

S.No.	PART	SUBJECT	MARKS	CREDITS
1.	Part I	Language - Tamil/Hindi/ Malayalam/ French / Sanskrit	200	6
2.	Part II	English	200	6
3.	Part III	Core- Theory/Practical	2000	72
		Allied	400	20
		Electives/Project	300	15
4.	Part IV	Basic Tamil / Advanced Tamil / Non Major Elective	150	4
		Skill Based Subjects	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	Part V	Extension Activities	50	1
TOTAL			3800	140

- 25% CIA is applicable to all subjects except JOC, COP and SWAYAM Courses, which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HoD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75 + 75 =150 / 10)	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN**K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate****1. Theory Examination - Part I, II & III****(i) CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4			
K5			
	Record Work	10	

3. Project Viva-Voce

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4			
K5	Viva voce	20	

Components of Continuous Internal Assessment

Components		Marks	Total
Theory	CIA 1	75	25
	CIA 2	75	
	Assignment/Seminar	5	
	Attendance	5	
Practical	CIA Practical	25	40
	Observation Notebook	10	
	Attendance	5	
Project	Review	15	20
	Regularity	5	

KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]

COIMBATORE - 641 029.

BACHELOR OF COMPUTER APPLICATIONS [BCA]

CURRICULUM & SCHEME OF EXAMINATION UNDER CBCS

[APPLICABLE TO STUDENTS ADMITTED FROM THE ACADEMIC YEAR 2019-2020] onwards

Semester	Part	Subject code	Title of the Paper	Instruction Hours / Cycle	Exam. Marks			Duration of Exam.(hours)	Credits
					CIA	ESE	Total		
I	I	19TML1A1	Lan - Tamil I/Hindi I/French I/ Malayalam I/ Sanskrit I	6	25	75	100	3	3
	II	19ENG101	Lan - English I	6	25	75	100	3	3
	III	19UCA101	C.P.1: – C Programming	5	25	75	100	3	4
		19UCA1CL	C.Pr .1: – C Programming Lab	5	40	60	100	3	2
		19UCA1A1	Allied 1:–Business Accounting	6	25	75	100	3	5
	IV	19EVS101	Enviromental Studies **	2	-	50	50	3	2
TOTAL HOURS				30	-	-	-	-	19
II	I	19TML2A2	Lan - Tamil II/Hindi II/ FrenchII/MalayalamII/ Sanskrit II	6	25	75	100	3	3
	II	19ENG202	Lan - English II	6	25	75	100	3	3
	III	19UCA202	C.P. 2: Object Oriented Programming with C++	4	25	75	100	3	4
		19UCA203	C.P. 3: – Digital Fundamentals and Computer Organization	3	25	75	100	3	4
		19UCA2CM	C.Pr .2:– Object Oriented Programming with C++ - Lab	3	40	60	100	3	2
		19UCA2A2	Allied 2:– Computer Oriented Numerical and Statistical methods	6	25	75	100	3	5
	IV	19VED201	Value Education - Moral & Ethics**	2	-	50	50	3	2
TOTAL HOURS				30	-	-	-	-	23
III	III	19UCA304	C.P.4: – Operating Systems	5	25	75	100	3	4
		19UCA305	C.P. 5: – Data Structures and Algorithms	5	25	75	100	3	4
		19UCA306	C.P 6: – Relational Database Management Systems	5	25	75	100	3	4
		19UCA3CN	C.Pr .3:– Relational Database Management Systems -Lab	5	40	60	100	3	2
		19UCA3A3	Allied 3:– Operations Research.	6	25	75	100	3	5

	IV	19UCA3S1	Skill Based Subject 1: Python Programming	2	25	75	100	3	3
		19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil*/ Adv.Tamil **/ Non major Elective –Human Rights	2	-	75	75	3	2
TOTAL HOURS				30	-	-	-	-	24
IV	III	19UCA407	C.P 7:– Software Engineering	5	25	75	100	3	4
		19UCA408	C.P 8: – Computer Networks	5	25	75	100	3	4
		19UCA409	C.P 9: –Advanced Java Programming	5	25	75	100	3	5
		19UCA4CO	C.Pr .4: – :- Advanced Java Programming Lab	5	40	60	100	3	2
		19UCA4A4	Allied 4: -Organizational Behavior and Marketing	6	25	75	100	3	5
	IV	19UCA4SL	Skill Based Subject 2: Python Programming Lab	2	40	60	100	3	3
		19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil*/Adv.Tamil**/ Non major Elective –Women’s Rights	2	-	75	75	3	2
TOTAL HOURS				30	-	-	-	-	25
V	III	19UCA510	C.P 10:– Visual Programming	6	25	75	100	3	5
		19UCA511	C.P 11: – Artificial Intelligence and Expert Systems	6	25	75	100	3	5
		19UCA512	C.P 12: – Data Mining and Warehousing	5	25	75	100	3	5
		19UCA5E1	Major Elective I	6	25	75	100	3	5
	IV	19UCA5CP	C.Pr .5 – Visual Programming Lab	5	40	60	100	3	2
		19UCA5XL	Extra Departmental Course- Internet and Office Automation -Lab	2	25	75	100	3	3
		19UCA5IT	Internship Training*****	Grade					
TOTAL HOURS				30	-	-	-	-	25
VI	III	19UCA6E2	Major Elective II	6	25	75	100	3	5
		19UCA613	C.P. 13: - Web Designing	6	25	75	100	3	4
		19UCA614	C.P.14:- Big Data Fundamentals	6	25	75	100	3	5
		19UCA6CQ	C.Pr. 6: - Web designing Lab	6	40	60	100	3	2
		19UCA6Z1	Project Work & Viva-Voce	4	20	80*	100	3	4
	IV	19UCA6SL	Skill Based Subject 3: Linux Programming- Lab	2	40	60	100	-	3
TOTAL HOURS				30	-	-	-	-	23

Part V	19NCC/NSS/ YRC/PYE101	Extension activity (NSS,NCC,PE,YRC) *	-	50 (CIA only)	-	50	-	1
Grand Total			-	-	-	3800	-	140

Note:

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End –of- Semester Examination

@Hindi - 18HIN101/202	\$NCC – 18NCC101
@French - 18FRN101/202	NSS – 18NSS101
@Malayalam - 18MLM101/202	Sports – 18PYE101
@Sanskrit - 18SAN101/202	YRC – 0YRC101

*No end –of- Semester Examinations – Only CIA.

** No Continuous Internal Assessment (CIA) – Only end- of –Semester Examinations (ESE).

*** Project Record 60 Marks; Viva-Voce 20 Marks; Internal-20 Marks.

**** The Students shall undergo an Internship training/Field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for hundred marks along with the internal viva-voce by the respective Faculty. According to their marks. The grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U(Reappear)

Major Elective Papers:

(2 Papers are to be chosen from the following 6 papers)

- 1) Internet of Things
- 2) Open Source Systems
- 3) Android Applications and Development
- 4) Client Server Techniques
- 5) Virtual Reality
- 6) Cloud Computing and Azure

Non-Major Elective Papers:

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Sub. Code & Title of the Extra Departmental Course(EDC):

19UCA5X1 - Internet and office Automation

List of Extension Activities

1. National Cadet Corps(NCC)
2. National Service Scheme(NSS)
3. Youth Red Cross(YRC)
4. Physical Education(PYE)
5. Eco Club (ECC)
6. Red Ribbon Club(RRC)
7. Women Empowerment Cell(WEC)

Note: In core/allied subjects, no. of papers both theory and practical are included where ever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table

Part I	Lan – Tamil/Hindi/French/Malayalam/Sanskrit	200	200	6
Part II	Lan – English	200	200	6
Part III	Core /Lab/Project Allied Elective	2000 400 300	2700	72 20 15
Part IV	Basic Tamil/Adv.Tamil/Non-Elective Major	150	650	4
	Skill Based subject	300		12
	EDC	100		2
	Environmental Studies	50		
	Value Education	50		2
Part V	Extension Activities	50	50	1
Grand Total Marks / Credits		3800	3800	140

- 25% CIA is applicable to all subjects except JOC,COP an SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a SWAYAM MOOC before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75=150/10)	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Project Viva voce:			
Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

**KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]
COIMBATORE - 641 029**

End Semester Examination Question Paper Pattern

[For the candidates admitted from the academic year 2014 Onwards]

BACHELOR OF COMPUTER APPLICATIONS [BCA]

Time: 3 Hours

Maximum Marks: 75 Marks.

Answer all of the following questions

Section – A

10X1=10

[10 Questions]

(Two questions from each unit. Questions shall be in the form of multiple choices)

Section – B

5 X5 =25

(Five questions either or type

(One question from each unit)

Section – C

5X8=40

Five questions either or type

(One question from each unit)

UCT - 1

**KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]
COIMBATORE - 641 029**

B.Sc. COMPUTER TECHNOLOGY [B.Sc. CT]

Curriculum and Scheme of Examination under CBCS

(Applicable to the Students Admitted during the Academic Year 2019-2020)

Semester	Part	Subject Code	Title of the Paper	Instruction hours / Cycle	Exam. Marks			Duration of Exam(hours)	Credits
					CIA	ESE	Total		
I	I	19TML1A1	Language I @	6	25	75	100	3	3
	II	19ENG101	English I	6	25	75	100	3	3
	III	19UCT101	C.P.1 C Programming	5	25	75	100	3	4
	III	19UCT1CL	C.Pr.1 C Programming Lab	5	40	60	100	3	2
	III	19UCT1A1	Allied 1 - Discrete Mathematics and Statistics	6	25	75	100	3	5
	IV	19EVS101	Environmental Studies **	2	-	50	50	3	2
Total				30	-	-	550	-	19
II	I	19TML2A2	Language II @	6	25	75	100	3	3
	II	19ENG202	English II	6	25	75	100	3	3
	III	19UCT202	C.P.2 Digital Logic and Circuit Designs	3	25	75	100	3	4
	III	19UCT203	C.P.3 Object Oriented Programming with C++	3	25	75	100	3	4
	III	19UCT2CM	C.Pr.2 Object Oriented Programming with C++ Lab	4	40	60	100	3	2
	III	19UCT2A2	Allied 2 – Operations Research	6	25	75	100	3	5
	IV	19VED201	Value Education - Moral and Ethics **	2	-	50	50	3	2
Total				30	-	-	650	-	23
III	III	19UCT304	C.P.4 Advanced Operating Systems	5	25	75	100	3	4
	III	19UCT305	C.P.5 Data Structures and Analysis of Algorithms	5	25	75	100	3	4
	III	19UCT306	C.P.6 Advanced Java Programming	5	25	75	100	3	4
	III	19UCT3CN	C.Pr.3 Advanced Java Programming Lab	5	40	60	100	3	2
	III	19UCT3A3	Allied 3 – Business Accounting	6	25	75	100	3	5

UCT -2

	IV	19UCT3S1	Skill Based Subject 1 - Programming Language in Python	2	25	75	100	3	3
	IV	19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil*/Advanced Tamil**/ Non Major Elective 1 – Human Rights **	2	-	75	75	3	2
Total				30	-	-	675	-	24
IV	III	19UCT407	C.P.7 Relational Database Management Systems	5	25	75	100	3	4
	III	19UCT408	C.P.8 .NET Framework	4	25	75	100	3	4
	III	19UCT409	C.P.9 Computer Networks	5	25	75	100	3	4
	III	19UCT4CO	C.Pr.4.NET Framework and Oracle Lab	6	40	60	100	3	2
	III	19UCT4A4	Allied 4 - Computer System Architecture	6	25	75	100	3	5
	IV	19UCT4SL	Skill Based Subject 2 - Python Programming Lab	2	40	60	100	3	3
	IV	19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil*/Advanced Tamil**/ Non Major Elective 2 - Women's Rights **	2	-	75	75	3	2
Total				30	-	-	675	-	24
V	III	19UCT510	C.P.10 Software Engineering and Testing	5	25	75	100	3	5
	III	19UCT511	C.P.11 Wireless Ad-Hoc Network	5	25	75	100	3	5
	III	19UCT512	C.P.12 Data Mining and Warehousing	6	25	75	100	3	5
	III	19UCT5E1	Major Elective I	6	25	75	100	3	5
	III	19UCT5CP	C.Pr.5 Software Testing Lab	6	40	60	100	3	2
	IV	-	Extra Departmental Course	2	40	60	100	3	3
		19UCT5SP	Aptitude and Logical Reasoning*****	Grade					
Total				30	-	-	600	-	25
VI	III	19UCT613	C.P.13 PHP	6	25	75	100	3	5
	III	19UCT614	C.P.14 Information Security	6	25	75	100	3	4
	III	19UCT6CQ	C.Pr.6 Programming Lab-PHP	6	40	60	100	3	2
	III	19UCT6E2	Major Elective II	6	25	75	100	3	5
	III	19UCT6Z1	Project Work & Viva - Voce ***	4	20	80	100	-	5
	IV	19UCT6SM	Skill Based Subject 4 - Hardware Installation and Networking Lab	2	40	60	100	3	3

UCT -3

	V	19NCC/NSS/ YRC/PYE/ ECC/RRC/ WEC101#	Extension Activities*	-	50	-	50	-	1
Total				30			650		25
Grand Total				-	-	-	3800	-	140

Note:

- CBCS - Choice Based Credit System
CIA - Continuous Internal Assessment
ESE - End of Semester Examinations

@ Hindi/Malayalam/French/Sanskrit – 19HIN/MLM/FRN/SAN101-202

* No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

** No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE).

*** Project Report- 60 Marks; Viva-Voce-20 Marks; Internal-20 Marks.

**** Aptitude and Logical Reasoning: The Written examination will be conducted and evaluated for 100 marks. According to their marks, the grades will be awarded as given below.

Marks%	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Web Development Languages
2. Cloud Computing
3. Digital Image Processing
4. Embedded Systems
5. Principles of Data Science
6. Artificial Intelligence

UCT -4

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Subject Code and Title of the Extra Departmental Course (EDC):

19UCT5X1-Web Development and Google App Lab

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In Core/Allied Subjects, No. of papers both Theory and Practical are included wherever applicable. However, the total credits and marks for Core/Allied subjects remain the same as stated below.

Tally Table:

S.No.	PART	SUBJECT	MARKS	CREDITS
1.	Part I	Language - Tamil/Hindi/ Malayalam/ French / Sanskrit	200	6
2.	Part II	English	200	6
3.	Part III	Core- Theory/Practical	2000	72
		Allied	400	20
		Electives/Project	300	15
4.	Part IV	Basic Tamil / Advanced Tamil / Non Major Elective	150	4
		Skill Based Subjects	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	Part V	Extension Activities	50	1
TOTAL			3800	140

UCT -5

- 25% CIA is applicable to all subjects except JOC, COP and SWAYAM Courses, which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HoD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75 + 75 =150 / 10)	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]

COIMBATORE - 641 029

B.Sc INFORMATION TECHNOLOGY [BSC IT]

CURRICULUM & SCHEME OF EXAMINATION UNDER CBCS

[APPLICABLE TO THE STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020]

Semester	Part	Subject code	Title of the Paper	Instruction Hours / Cycle	Exam. Marks			Duration of Exam (hrs)	Credits
					CIA	ESE	Total		
I	I	19TML1A1	Language I@	6	25	75	100	3	3
	II	19ENG101	English - I	6	25	75	100	3	3
	III	19UIT101	Core Paper I – C Programming	5	25	75	100	3	5
	III	19UIT1CL	Core Practical I – Programming Lab - C	5	40	60	100	3	2
	III	19UIT1A1	Allied I - Mathematical Foundations for Computer Science	6	25	75	100	3	5
	IV	19EVS101	Environmental Studies **	2	-	50	50	3	2
	Total			30	-	-	550	-	20
II	I	19TML2A2	Language II@	6	25	75	100	3	3
	II	19ENG202	Language - English II	6	25	75	100	3	3
	III	19UIT202	Core Paper II - Computer Organization and Architecture	4	25	75	100	3	4
	III	19UIT203	Core Paper III - Object Oriented Programming with C++	3	25	75	100	3	5
	III	19UIT2CM	Core Practical II - Programming Lab -C++	3	40	60	100	3	2
	III	19UIT2A2	Allied II- Computer Oriented Numerical and Statistical Methods	6	25	75	100	3	5
	IV	19VED201	Value Education - Moral and Ethics **	2	-	50	50	3	2
	Total			30	-	-	750	-	24
III	III	19UIT304	Core Paper IV – Data Structures and Algorithms	5	25	75	100	3	4
	III	19UIT305	Core Paper V – Relational Database Management System and ORACLE	5	25	75	100	3	4
	III	19UIT306	Core Paper VI – Advanced JAVA Programming	5	25	75	100	3	5
	III	19UIT3CN	Core Practical III - Programming Lab – Advanced JAVA & ORACLE	5	40	60	100	3	2
	III	19UIT3A3	Allied III - Business Accounting	6	25	75	100	3	5
	IV	19UIT3S1	Skill Based Subject 1 – Web Programming (HTML,CSS,XML)	2	25	75	100	3	3
	IV	19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil * / Advanced Tamil **/ Non-Major Elective – I ** (Human Rights)	2	-	75	75	3	2
	Total			30	-	-	675	-	25

UIT - 2

IV	III	19UIT407	Core Paper VII – Operating Systems	5	25	75	100	3	4
	III	19UIT408	Core Paper VIII –.NET Programming	5	25	75	100	3	4
	III	19UIT409	Core Paper IX –Computer Networks	5	25	75	100	3	4
	III	19UIT4CO	Core Practical IV – Programming Lab –.Net	5	40	60	100	3	2
	III	19UIT4A4	Allied IV – Microprocessors, PC Hardware and Interfacing	6	25	75	100	3	5
	IV	19UIT4SL	Skill Based Subject 2 (Practical) Web Programming Lab(HTML,CSS,XML)	2	40	60	100	3	3
	IV	19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil */ Advanced Tamil **/ Non-Major Elective – II ** (Women's Rights)	2	-	75	75	3	2
	Total			30	-	-	675	-	24
V	III	19UIT510	Core Paper X – Python Programming	5	25	75	100	3	4
	III	19UIT511	Core Paper XI – Software Engineering	6	25	75	100	3	4
	III	19UIT512	Core Paper XII – Mobile Computing	6	25	75	100	3	4
	III	19UIT5CP	Core Practical V - Programming Lab - Python	5	40	60	100	3	2
	III	19UIT5E1	Major Elective I	6	25	75	100	3	5
	IV		EDC	2	40	60	100	3	3
	-	19UIT5IT	Internship Training ****	Grade					
	Total			30	-	-	600	-	22
VI	III	19UIT613	Core Paper XIII – Open Source Tools	6	25	75	100	3	5
	III	19UIT614	Core Paper XIV - Information Security	6	25	75	100	3	4
	III	19UIT6CQ	Core Practical VI – Programming Lab Open Source Tools	6	40	60	100	3	2
	III	19UIT6E2	Major Elective II	6	25	75	100	3	5
	III	19UIT6Z1	Project***	4	20	80	100	3	5
	IV	19UIT6SM	Skill Based Subject 3 (Practical) Software Testing Lab	2	40	60	100	3	3
		Total			30	-	-	600	24
	V	19NCC/NSS / YRC/PYE/ ECC/RRC/ WEC101#	Extension Activities*	-	50	-	50	-	1
		Grand Total			-	-	-	3800	140

Note:

- CBCS - Choice Based Credit System
CIA - Continuous Internal Assessment
ESE - End of Semester Examinations

@ Hindi/Malayalam/ French/ Sanskrit – 19HIN/MLM/FRN/SAN101-202

* No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

** No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal-20 marks

**** The students shall undergo an Internship Training/ Field Work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective faculty. According to their marks the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Artificial Intelligence
2. Big Data Analytics
3. Data Mining
4. Cloud Computing
5. Software Project Management
6. Internet of Things

Non - Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Subject Code and Title of the Extra Departmental Course (EDC):

19UIT5X1 - Designing Through Multimedia - GIMP

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table:

S.NO	PART	SUBJECT	MARKS	CREDITS
1.	I	Language – Tamil/Hindi/French/Malayalam/Sanskrit	200	6
2.	II	English	200	6
3.	III	Core – Theory / Practical	2000	72
		Allied	400	20
		Electives/Project	300	15
4.	IV	Basic Tamil / Advanced Tamil / Non – Major elective	150	4
		Skill Based Subject	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
		Total	3800	140

- 25% CIA is applicable to all subjects except JOC, COP and SWAYAM Courses, which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HoD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA 1	75	(75+75 = 150/10) 15	25
CIA 2	75		
Assignment/Seminar		5	
Attendance		5	
Practical			40
Practical	CIA Practical	25	
Observation Notebook		10	
Attendance		5	
Project			20
Project	Review	15	
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN
K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

**QUESTION PAPER PATTERN for CIA and ESE
B.Sc Information Technology**

Theory

Max Marks: 75

Time: 3Hrs

Section A (10 x 1 = 10 marks)

Q.No. 1 to 10 : Multiple choice type alone with four distractors each.

Section B (5 x 5 = 25 marks)

Q.No. 11 to 15 : Either or / short notes type questions (one question 'a' or 'b' from each unit).

Section C (5 x 8 = 40 marks)

Q.No. 16 to 20 : Either or / essay type questions (one question 'a' or 'b' from each unit).

Course Name : B.Com

UCM 1
CURRICULUM AND SCHEME OF EXAMINATIONS

(APPLICABLE TO STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020 AND ONWARDS)

Semester	Part	Subject Code	Title of the Paper	Instruction Hours/cycle	Exam. Marks			Duration of Exam. Hrs.	Credits
					CIA	ES E	Total		
I	I	18TML1A1	Language I@	6	25	75	100	3	3
	II	18ENG101	English –I	6	25	75	100	3	3
	III	18UCM101	Core Paper 1 - Fundamentals of Financial Accounting	6	25	75	100	3	5
	III	18UCM102	Core Paper 2 - Business Organization	4	25	75	100	3	3
	III	19UCM1A1	Allied Paper 1– Business Economics	6	25	75	100	3	5
	IV	18EVS101	Environmental Studies**	2	-	50	50	3	2
	Total			30			550	-	21
II	I	18TML2A2	Language II@	6	25	75	100	3	3
	II	18ENG202	English –II	6	25	75	100	3	3
	III	18UCM203	Core Paper 3 - Financial Accounting	6	25	75	100	3	5
	III	18UCM204	Core Paper 4 – Modern Banking	4	25	75	100	3	3
	III	19UCM2A2	Allied Paper 2- International Trade	6	25	75	100	3	5
	IV	18VED201	Value Education- Moral and Ethics **	2	-	50	50	3	2
	Total			30			550	-	21
III	III	18UCM305	Core Paper 5 - Higher Financial Accounting	6	25	75	100	3	5
	III	18UCM306	Core Paper 6–Principles of Management	5	25	75	100	3	3
	III	18UCM307	Core Paper 7 - Commercial Law	5	25	75	100	3	3
	III	19UCM308	Core Paper 8 – Principles of Marketing	4	25	75	100	3	3
	III	18UCM3A3	Allied Paper 3- Business Mathematics	6	25	75	100	3	5
	IV	19UCM3SL	Skill Based subject 1- Computer Applications (MS-Office)- Practical –I	2	40	60	100	3	3
	IV	18TBT301/ 18TAT301/ 18UHR3N1	Basic Tamil* / Advanced Tamil** (OR) Non-major elective- I**	2			75	3	2
Total				30			675	-	24

IV	III	18UCM409	Core Paper 9 - Corporate Accounting	6	25	75	100	3	5
	III	18UCM410	Core Paper 10 -Company Law	5	25	75	100	3	3
	III	18UCM411	Core Paper 11 - Financial Management	5	25	75	100	3	3
	III	18UCM412	Core Paper 12 – Business Communication	4	25	75	100	3	3
	III	18UCM4A4	Allied Paper 4- Business Statistics	6	25	75	100	3	5
	IV	19UCM4SM	Skill Based subject 2- Computer Applications (Tally & Internet)-Practical –II	2	40	60	100	3	3
	IV	18TBT402/ 18TAT402/ 18UWR4N2	Basic Tamil* / Advanced Tamil** (OR) Non-major elective- II**	2			75	3	2
	Total			30			675	-	24
V	III	18UCM513	Core Paper 13 -Higher Corporate Accounting	6	25	75	100	3	5
	III	18UCM514	Core Paper 14 - Cost Accounting	6	25	75	100	3	4
	III	18UCM515	Core Paper 15 - Direct Tax	6	25	75	100	3	4
	III	19UCM516	Core Paper 16 – Business Research Methods	5	40	60	100	3	3
	III	19UCM5E1	Major Elective Paper 1	5	25	75	100	3	5
			Extra Departmental Course	2	25	75	100	3	3
		19UCM3IT	Institutional Training****	Grade****					
Total				30			600	-	24
VI	III	18UCM617	Core Paper 17 -Management Accounting	5	25	75	100	3	4
	III	19UCM618	Core Paper 18 – Indirect Tax	5	25	75	100	3	3
	III	19UCM619	Core Paper 19 – Auditing	5	25	75	100	3	3
	III	19UCM620	Core Paper 20 –Entrepreneurial Development	4	25	75	100	3	2
	III	18UCM6Z1	Project and Viva Voce***	4	20	80	100	-	5
	III	18UCM6E2	Major Elective Paper 2	5	25	75	100	3	5
	IV	19UCM6SN	Skill Based subject 3 - Computer Applications (Tally & Internet)-Practical –III	2	40	60	100	3	3
	V	19NCC/NSS/ YRC/PYE/EC C/RRC/ WEC101#	Extension Activities	-	50	-	50	-	1
Total				30			750	-	26
Total				180			3800		140

UCM 3

@ French/Hindi/Malayalam/Sanskrit

* No End of Semester Examinations (ESE). Only Continuous Internal Assessment (CIA).

** No Continuous Internal Assessment (CIA). Only End of Semester Examinations (ESE).

*** Project Report – 60 marks; Viva-voce – 20 marks; Internal – 20 marks

**** The students shall undergo an Internship training/field work for a minimum period of 2 weeks at the end of the second semester during summer vacation and submit the report in the third semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers (2 papers are to be chosen from the following 6 papers)

Major Elective Papers (can choose any one of the paper as elective)	
1	Financial Markets and Services
2	Security Analysis and Portfolio Management
3	Business Environment
4	Human Resource Management
5	Consumer Affairs
6	Brand Management

Non-Major Elective Papers

1. Human Rights
2. Women's Rights

UCM 4

Sub. Code & Title of the Extra Departmental Course (EDC) :

19UCM5X1 – Extra Departmental Course: Goods and Service Tax

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Tally Table

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	200	6
2.	II	English	200	6
3.	III	Core – Theory/Project	2100	77
		Allied (4)	400	20
		Major Electives (2)	200	10
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major electives	150	4
		Skill Based subjects (3)	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
		Total	3800	140

Note:

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

UCM 5

25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.

- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

UCM 6

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive/ Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

UCM 7

Components of Continuous Internal Assessment

Components			Marks	Total	
Theory	CIA 1	75	(75+75 = 150/10) 15	25	
	CIA 2	75			
Assignment/Seminar			5		
Attendance			5		
Practical			CIA Practical	25	40
Observation Notebook			10		
Attendance			5		
Project			Review	15	20
Regularity			5		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COIMBATORE – 641029

Course Name: B.Com with Computer Applications

Curriculum and Scheme of Examinations under CBCS

(APPLICABLE TO THE STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020 AND ONWARDS)

Semester	Part	Subject Code	Title of the Paper	Instruction Hours/Cycle	Exam. Marks			Duration of Exam. (Hrs)	Credits
					CIA	ESE	Total		
I	I	19TML1A1@	Lan - Tamil I/Hindi I/ French I/ Malayalam I/ Sanskrit I	6	25	75	100	3	3
	II	19ENG101	Lan - English I	6	25	75	100	3	3
	III	19UCC101	C. P. 1 - Principles of Accountancy	4	25	75	100	3	3
		19UCC102	C.P. 2 - Introduction to Information Technology	4	25	75	100	3	3
		19UCC1A1	ALLIED. A 1 - Business Mathematics	6	25	75	100	3	5
		19UCC1CL	C.Pr. 1 - Computer Applications I - MS Office	2	20	30	50	3	1
	IV	19EVS101	Environmental Studies**	2	-	50	50	3	2
	Total			30					
II	I	19TML2A2@	Lan - Tamil II/Hindi II/French II/ Malayalam II/Sanskrit II	6	25	75	100	3	3
	II	19ENG202	Lan - English II	6	25	75	100	3	3
	III	19UCC203	C.P. 3 - Financial Accounting	4	25	75	100	3	3
		19UCC204	C.P.4 - Indian Banking system	4	25	75	100	3	3
		19UCC2A2	ALLIED. B 1 - Business Statistics	6	25	75	100	3	5
		19UCC2CM	C. Pr.2 -Computer Applications II - Accounting Package Tally	2	20	30	50	3	1
	IV	19VED201	Value Education - Moral & Ethics**	2	-	50	50	3	2
	Total			30					
III	III	19UCC305	C.P.5 - Cost Accounting	6	25	75	100	3	5
		19UCC306	C.P. 6 - Direct Tax	6	25	75	100	3	5
		19UCC307	C.P. 7- Database Management Systems	5	25	75	100	3	4
		19UCC3A3	ALLIED.C 1 - Principles of Marketing	5	25	75	100	3	5
		19UCC3CN	C.Pr.3 -Computer Applications III - SQL	4	40	60	100	3	2
	IV	19UCC3S1	Skill based subject 1 - Managerial Economics	2	25	75	100	3	3
		19TBT301/ 19TAT301/ 19UHR 3N1	Basic Tamil*/Advanced Tamil**/ Non major Elective-I** Human Rights	2	-	75	75	3	2
	Total			30					

IV	III	19UCC408	C.P. 8- Corporate Accounting	6	25	75	100	3	5
		19UCC409	C.P. 9- Principles of Auditing	5	25	75	100	3	4
		19UCC410	C.P. 10-Object Oriented Programming with C++	5	25	75	100	3	4
		19UCC4A4	ALLIED.D 1 – Executive Business Communication	6	25	75	100	3	5
		19UCC4CO	C.Pr.4 -Computer Applications IV - C++ Programming	4	40	60	100	3	2
	IV	19UCC4S2	Skill based subject 2 – Principles of Management	2	25	75	100	3	3
		19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil*/Advanced Tamil**/ Non major Elective-II** Women rights	2	-	75	75	3	2
			Total	30					
V	III	19UCC511	C.P.11- Management Accounting	6	25	75	100	3	5
		19UCC512	C.P. 12 - Financial Management	6	25	75	100	3	4
		19UCC513	C.P.13- Programming in Visual Basic	6	25	75	100	3	5
		19UCC5E1	Major Elective -I	6	25	75	100	3	5
		19UCC5CP	C.Pr.5 - Computer Applications V – Visual Basic Programming	4	40	60	100	3	2
	IV	-	EDC	2	25	75	100	3	3
		19UCC5IT	Institutional Training		GRADE****				-
			Total	30			600		24
VI	III	19UCC614	C.P.14- E-Commerce	6	25	75	100	3	4
		19UCC615	C.P.15- Internet and Web Designing	6	25	75	100	3	5
		19UCC6E2	Major Elective - II	6	25	75	100	3	5
		19UCC6CQ	C.Pr.6 - Computer Applications VI - HTML & Internet	5	40	60	100	3	2
		19UCC6Z1	Project Work & Viva-voce***	5	20	80	100	-	5
	IV	19UCC6S3	Skill based subject 3 - Cyber Law	2	25	75	100	3	3
			Total	30					
	V	19NCC/NSS/YRC/ PYE/ECC/RRC/W EC 101#	Extension Activities *	-	50	-	50		1
GRAND TOTAL				180			3800		140

Note:

CBCS – Choice Based Credit System

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

@French/Hindi/Malayalam/Sanskrit – 19HIN/MLM/FRN/SAN101-202

* -No End of Semester Examinations (ESE). Only Continuous Internal Assessment (CIA).

**- No Continuous Internal Assessment (CIA). Only End of Semester Examinations (ESE).

*** Project Report – 60 marks; Viva-voce – 20 marks; Internal – 20 marks

**** The students shall undergo an Internship training/field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective Faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

MAJOR ELECTIVE PAPERS

(Any 2 paper to be chosen from the following 6 papers)

1. Research Methodology
2. Investment Management
3. Management Information System
4. Human Resource Management
5. Entrepreneurship Development
6. Consumer Affairs

NON-MAJOR ELECTIVES PAPERS

1. Human Rights
2. Women's Rights

SUB.CODE & TITLE OF THE EXTRA DEPARTMENTAL COURSE (EDC)

1. **19UCC5X1 - EDC** – Import and Export Procedure

LIST OF EXTENSION ACTIVITIES

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core / allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

TALLY TABLE

S.No	Part	Subject	Marks	Credit
1.	I	Lan – Tamil / Hindi / French / Malayalam/ Sanskrit	200	6
2.	II	Lan – English	200	6
3.	III	Core - Theory/Practical	2000	72
		Allied	400	20
		Electives/ Project	300	15
4.	IV	Basic Tamil/Advanced Tamil/ Non - major Electives	150	4
		Skilled based subject	300	9
		EDC	100	3
		Environmental studies	50	2
		Value Education	50	2
5.	V	Extension Activities (NCC/NSS/Sports/YRC/RRC/WEC)	50	1
Total			3800	140

- 25% CIA is applicable to all subjects except JOC, COP and SWAYAM Courses, which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM – MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

JOC – Job Oriented Course

Subject code	Title	Instruction Hours	CIA	ESE	Total	Duration	Credits
19UCC0JL	JOC:COMPUTER APPLICATION IN BUSINESS - PRACTICALS	3	-	100	100	3Hrs	2

Components of Continuous Internal Assessment

Components		Marks		Total	
Theory					
CIA I	75	(75+75 = 150/10) 15		25	
CIA II	75				
Assignment/Seminar		5			
Attendance		5			
Practical					
CIA Practical		10	25	20	40
Observation Notebook		5	10		
Attendance		5	5		
Project					
Review		15		20	
Regularity		5			

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remember; **K2**-Understanding; **K3**-Apply; **K4**-Analyze; **K5**-Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	25	30
K4		05	
K5	Record Work		

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

UPA01

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029**

**DEPARTMENT OF COMMERCE WITH PROFESSIONAL ACCOUNTING (UG)
Curriculum and scheme of Examination under CBCS
(Applicable to students Admitted from the Academic Year 2019-2020 onwards)**

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam	Credits
					CIA	ESE	TOTAL		
I	I	18TML1A1	Language I@	6	25	75	100	3	3
	II	18ENG101	English -I	6	25	75	100	3	3
	III	18UPA101	C.P.1 – Principles of Accountancy	4	25	75	100	3	3
	III	18UPA102	C.P.2 – Business Economics	4	25	75	100	3	3
	III	18 UPA1A1	Allied 1– Mathematics for Business	6	25	75	100	3	5
	-	-	C.Pr.1-Computer Applications Practical I	2	-	-	-	-	-
	IV	18EVS101	Environmental Studies **	2	-	50	50	3	2
Total (i)				30	125	425	550	-	19
II	I	18TML2A2	Language II@	6	25	75	100	3	3
	II	18ENG202	English –II	6	25	75	100	3	3
	III	18UPA2CL	C.Pr.1 - Computer Applications Practical I	4	40	60	100	3	2
	III	19UPA203	C.P.3 - Mercantile Law	3	25	75	100	3	2
	III	19UPA204	C.P.4 - Banking Theory, Law & Practice	3	25	75	100	3	2
	III	18UPA2A2	Allied 2 - Statistics for Business	6	25	75	100	3	5
	IV	18VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2
Total (ii)				30	165	485	650	-	19
III	III	18UPA305	C.P.5 – Financial Accounting	6	25	75	100	3	5
	III	19UPA306	C.P.6 – Cyber Law	5	25	75	100	3	4
	III	19UPA307	C.P.7 – Business Communication	5	25	75	100	3	4
	III	19UPA308	C.P.8 – Accounting Standards	4	25	75	100	3	3
	III	18UPA3A3	Allied 3- Introduction to Information Technology	6	25	75	100	3	5
	IV	19UPA3S1	Skill Based Subject 1- Business Policy and Strategic Management	2	25	75	100	3	3
	IV	18TBT301/ 18TAT301/	Basic Tamil* / Advanced Tamil** (OR) Non-major elective- I**	2	-	-	75	3	2

		18UHR3N1							
Total (iii)				30	150	450	675	-	26
IV	III	19UPA409	C.P.9 - Partnership Accounting	6	25	75	100	3	5
	III	19UPA410	C.P.10 - Cost Accounting	5	25	75	100	3	4
	III	19UPA411	C.P.11 - Company Law	5	25	75	100	3	3
	III	19UPA412	C.P.12 - Principles of Management	4	25	75	100	3	3
	III	19UPA4A4	Allied 4- Industrial Law	6	25	75	100	3	5
	IV	19UPA4S2	Skill Based subject 2- Customer Relationship Management	2	25	75	100	3	3
	IV	18TBT402/ 18TAT402/ 18UWR4N2	Basic Tamil* / Advanced Tamil** (OR) Non-major elective- II**	2		-	75	3	2
Total (iv)				30	150	450	675	-	25
V	III	19UPA513	C.P.13 - Corporate Accounting	6	25	75	100	3	5
	III	19UPA514	C.P.14 - Financial Management	5	25	75	100	3	4
	III	18UPA515	C.P.15 - Direct Tax	6	25	75	100	3	5
	III	19UPA516	C.P.16 – Principles of Marketing	5	25	75	100	3	4
	III	18UPA5E1	Major Elective 1 -	6	25	75	100	3	5
	IV	----	Extra Departmental Course Entrepreneurship Development	2	25	75	100	3	3
	-	19UPA5IT	Internship Training ***	Grade					
Total (v)				30	150	450	600	-	26
VI	III	19UPA617	C.P.17– Management Accounting	5	25	75	100	3	4
	III	19UPA618	C.P.18 – Principles of Auditing	4	25	75	100	3	3
	III	19UPA619	C.P.19 – Indirect Tax	5	25	75	100	3	4
	III	19UPA6E2	Major Elective 2 –	6	25	75	100	3	5
	III	18UPA6Z1	Professional Training cum Project***	8	20	80	100	-	5
	IV	19UPA6S3	Skill Based subject 3- Investment Management	2	25	75	100	3	3
	V	18NCC/NSS/ YRC/PYE101	Extension Activities*	-	50	-	50	-	1
Total (vi)				30	195	455	650	-	25
			Total (i)+(ii)+(iii)+(iv)+(v)+(vi)				3800		140

Note :

CBCS – Choice Based Credit system CIA – Continuous Internal Assessment
ESE – End of Semester Examinations

UPA03

@ Tamil/Hindi/Malayalam/ French/ Sanskrit – 16TML/HIN/MLM/FRN/SAN101 - 202

* No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

** No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal-20 marks

**** The students shall undergo an Internship training or field work for a minimum period of two weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the respective faculty. According to their marks, the grades will be awarded as given below:

Marks (%)	Grade
85 to 100	O
70 to 84	D
60 to 69	A
50 to 59	B
40 to 49	C
Less than 40	U (Re-appear)

Major Elective Papers (2 papers are to be chosen from the following 6 papers)

- | | |
|--------------------------------------|----------------------------------|
| 1. Consumer Affairs | 2. Financial Services |
| 3. Human Resource Management | 4. Working Capital Management |
| 5. Insurance Principles and Practice | 6. Management Information System |

Non-Major Elective Papers

- | | |
|-----------------|-------------------|
| 1. Human Rights | 2. Women's Rights |
|-----------------|-------------------|

Subject Code & Title of the Extra Departmental Course

1. 19UPA5X1 : Entrepreneurship Development

Skill based subjects

- | | |
|--------------------------|-------------------------------------|
| 1. Strategic Management | 2. Customer Relationship Management |
| 3. Investment Management | |

List of Extension Activities

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core / allied subjects, number of papers both theory and practical are included wherever applicable. However, the total credits and marks for core or allied subjects remain the same as stated below:

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	200	6
2.	II	English	200	6
3.	III	Core – Theory/Practical/Project	2100	77
		Allied (4)	400	20
		Major Electives (2)	200	10
4.	IV	Basic Tamil / Advanced Tamil (OR) Non- major electives	150	4
		Skill Based subjects (4)	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities NCC/NSS/YRC/PYE	50	1
		Total	3800	140

- i. 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as ‘Extra Credit’ courses.
- ii. The students are advised to complete a SWAYAM – MOOC before the completion of the fifth semester and the Course Completed Certificate should be submitted to the HoD. Two credits will be given to the candidates who have successfully completed.
- iii. A field trip preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	(75+75=150 /10)	25
	CIA 2	75		
	Assignment/ Seminar		5	
	Attendance		5	
Practical	CIA	Practical	25	40
	Observation Notebook		10	
	Attendance		5	
Project	Review		15	20
	Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1- Remember ; **K2-** Understand; **K3-** Apply; **K4-** Analyze; **K5-** Evaluate

1.Theory Examination: Part I,II &III

(i) CIA I& II and ESE: 75 Marks

Knowledge level	Section	Marks	Description	Total
K1 Q1 to10	A (Answer all)	10 x 1=10	MCQ	75
K2 Q11 to 15	B (either or pattern)	5 x 5=25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8=40	Descriptive / detailed	

UPA04

2. Practical Examination: 100 marks

ESE (60 marks)

Knowledge Level	Section	Marks	Total
K3	Practical Record Work	*50	60
K4			
K5		10	

* Program 1: 25 marks & Program 2: 25 marks

3. Project Viva Voce: 100 marks

ESE (80 marks)

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4			
K5	Viva Voce	20	

Course Name : BBA (CA)

UBA 1

CURRICULUM AND SCHEME OF EXAMINATIONS (CBCS)

(APPLICABLE TO STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020 AND ONWARDS)

Semester	Part	Subject code	Title of the Paper	Instruction Hours/Cycle	Exam. Marks			Durations of Exam (Hours)\$	Credit
					CIA	ESE	Total		
I	I	19TML1A1 @	Language I-Tamil I / Hindi I/French I / Malayalam I/Sanskrit I	6	25	75	100	3.00	3
	II	19ENG101	English I	6	25	75	100	3.00	3
	III	19UBA101	C.P.1 Principles of Management and Organizational Behavior	5	25	75	100	3.00	4
		19UBA102	C.P.2 -Introduction to Information Technology	5	25	75	100	3.00	4
		19UBA1A1	Allied. A 1 -Mathematics for Management-I	6	25	75	100	3.00	5
	IV	19EVS101	Environmental Studies**	2	-	50	50	3.00	2
	Total			30			550		21
II	I	19TML2A2 @	Language II-Tamil II / Hindi II/French II / Malayalam II/Sanskrit II	6	25	75	100	3.00	3
	II	19ENG202	English II	6	25	75	100	3.00	3
	III	19UBA203	C.P.3- Principles of Financial Accounting	5	25	75	100	3.00	5
		19UBA 204	C.P.4- Business Communication	2	25	75	100	3.00	3
		19UBA2CL	C.Pr.1 -Programming Laboratory(MSOFFICE 2010)	3	40	60	100	3.00	2
		19UBA2A2	Allied A 2 -Mathematics for Management – II	6	25	75	100	3.00	5
	IV	19VED201	Value Education- Moral and Ethics**	2	-	50	50	3.00	2
	Total			30			650		23

UBA 2

III	III	19UBA305	C.P.5 -Marketing Management	5	25	75	100	3.00	4
		19UBA306	C.P.6 -Production and Materials Management	5	25	75	100	3.00	4
		19UBA307	C.P.7 -Financial Management	5	25	75	100	3.00	4
		19UBA3CM	C.Pr.2 - Programming Laboratory (Tally ERP 9)	6	40	60	100	3.00	3
		19UBA3A3	Allied B1 -Business Economics	5	25	75	100	3.00	5
	IV	19UBA3S1	Skill Based Subject 1 -Common Aptitude Skills (Online) - I	2	25	75	100	3.00	3
		19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil*/Advanced Tamil**/Non Major elective - 1 Human Rights**	2	-	75	75	3.00	2
	Total			30			675		25
IV	III	19UBA 408	C.P.8 -Human Resource Management	6	25	75	100	3.00	5
		19UBA409	C.P.9 -Global Business Management	6	25	75	100	3.00	5
		19UBA410	C.P.10 - Internet and Web Page Designing	4	25	75	100	3.00	4
		19UBA4CN	C.Pr.3 -Programming Laboratory(Internet and Web Page Designing	4	40	60	100	3.00	2
		19UBA4AL	Allied Pr.1 -Functional English for Executives	6	50	50	100	3.00	5
	IV	19UBA4S2	Skill Based Subject 2 -Common Aptitude Skills (Online) - II	2	25	75	100	3.00	3
		19TBT402/ 19TAT402/ 19UWR4N2	Basic Tamil*/ Advanced Tamil**/ Non major elective – 2 - Women's Rights**	2	-	75	75	3.00	2
	Total			30			675		26

UBA 3

V	III	19UBA511	C.P.11 - Research Methods for Management	6	25	75	100	3.00	4
		19UBA512	C.P.12 -Cost and Management Accounting	6	25	75	100	3.00	4
		19UBA513	C.P.13 -RDBMS& ORACLE	5	25	75	100	3.00	4
		19UBA5CO	C.Pr.4 -Programming Laboratory (RDBMS & ORACLE)	5	40	60	100	3.00	2
		19UBA5E1	Major Elective Paper I	6	25	75	100	3.00	5
	IV	-	EDC	2	25	75	100	3.00	3
	-	19UBA5IT	Internship Training****	Grade					
	Total			30			600		22
VI	III	19UBA614	C.P.14 – Business Law	6	25	75	100	3.00	4
		19UBA615	C.P.15 - VISUAL BASIC	5	25	75	100	3.00	4
		19UBA6CP	C.Pr.5 -Programming Laboratory (VISUAL BASIC)	5	40	60	100	3.00	2
		19UBA6E2	Major Elective Paper II	6	25	75	100	3.00	5
		19UBA6Z1	Project work & viva-voce***	6	20	80	100	3.00	4
	IV	19UBA6S3	Skill Based Subject 3 - Management Information System.	2	25	75	100	3.00	3
	V	19NCC/NSS/YRC/PYE/EC C/RRC/WEC 101#	EXTENSION ACTIVITIES	-	50	-	50	-	1
	Total			30			650		23
	Grand Total			180			3800	-	140

Note:

CBCS - Choice Based Credit System

CIA - Continuous Internal Assessment

ESE - End of Semester Examinations

@ Hindi /Malayalam / French/ Sanskrit – 19HIN/MLM/FRN/SAN101 -202

* No End of Semester Examinations (ESE). Only Continuous Internal Assessment (CIA).

** No Continuous Internal Assessment (CIA). Only End of Semester Examinations (ESE).

*** Project Report – 60 marks; Viva-voce – 20 marks; Internal – 20 marks

**** The students shall undergo an Internship training/field work for a minimum period of 2 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report

UBA 4

will be evaluated for 100 marks along with the internal viva voce by the respective faculty. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Goods and Service Tax
2. Retail Management
3. Banking and Insurance Law
4. Logistical Management
5. Customer Relationship Management
6. Consumer Affairs

Non-Major Elective Papers

1. Human Rights
2. Women's Rights

Extra Departmental Course (EDC):

19UBA5XL – Programming Laboratory - Tally ERP 9

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Job Oriented Courses (JOC)

JOC - 1 – 19UBA0JL - Digital Marketing – PRACTICALS

JOC – 2 – 19UBA0JM - Implementation of GST in Tally ERP 9 - PRACTICALS

Notes: In core / allied subject, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/French/Sanskrit	200	6
2.	II	English	200	6
3.	III	Core – Theory/Practical	2000	73
		Allied	400	20
		Electives/Project	300	14
4.	IV	Basic Tamil/Advanced Tamil/Non-major elective	150	4
		Skill Based Subjects	300	9
		EDC	100	3
		Environmental studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
Total			3800	140

- 25% CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course complete certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN**K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate****1. Theory Examination - Part I, II & III****(i) CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

(ii) CIA I & II and ESE: 55 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		

U C D 1

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029**

Course Name: Costume Design and Fashion

Curriculum and Scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2019-2020 and onwards)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam hours)	Credits
					CIA	ESE	TOTAL		
I	I	19TML1A1	Language I@	6	25	75	100	3	3
	II	19ENG101	English -I	6	25	75	100	3	3
	III	19UCD101	Core Paper 1 –Principles of Pattern Making	5	25	75	100	3	4
	III	19UCD1CL	C.Pr.1– Basics of Apparel Designing	6	40	60	100	3	3
	III	19UCD1AL	Allied.Pr.1 Surface Ornamentation	5	40	60	100	3	5
	IV	19EVS101	Environmental Studies **	2	-	50	50	3	2
	Total			30	-	-		-	
II	I	19TML2A2	Language II@	6	25	75	100	3	3
	II	19ENG202	English –II	6	25	75	100	3	3
	III	19UCD202	C.P.2 – Fiber To Yarn	3	25	75	100	3	3
	III	19UCD203	C.P.3- Fashion Designing and Fashion Psychology	3	25	75	100	3	4
		19UCD2CM	C.Pr.2 – Apparel Designing- Kid's Wear	5	40	60	100	4	3
	III	19UCD2AM	Allied. Pr.2. Fashion Sketching	5	40	60	100	3	5
	IV	19VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2

U C D 2

		Total	30	-	-		-	
III		19UCD31T	Internship Training in Textile Unit/ Garment Unit/ Boutique ****	Grade				
	III	19UCD304	C.P.4 Fabric Manufacturing Techniques	6	25	75	100	3 4
	III	19UCD3CN	C.Pr.3 Fabric Structure	3	40	60	100	3 2
	III	19UCD3CO	C Pr.4 –Apparel Designing- Women’s Wear	6	40	60	100	4 4
	III	19UCD3CP	C.Pr.5. Fashion Illustration	5	40	60	100	3 4
	III	19UCD3AN	Allied.Pr.3- Draping Fundamentals	6	25	75	100	3 5
	IV	19UCD3S1	Skill Based Subject 1 – Fashion Communication	2	25	75	100	3 3
	IV	19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil* / Advanced Tamil**/ Non-major elective-1- Human Rights**	2		75	75	3 2
Total				30	-	-		-
IV	III	19UCD405	C.P.5 - Apparel Marketing	4	25	75	100	3 4
	III	19UCD406	C.P.6- Textile Processing	5	25	75	100	3 4
	III	19UCD4CQ	C Pr. 6 –Textile Wet Processing	5	40	60	100	3 3
	III	19UCD4CR	C Pr.7- Apparel Designing - Men’s wear	6	40	60	100	4 4
	III	19UCD4A1	Allied P. 1 - Boutique Management	6	25	75	100	3 5
	IV	19UCD4SL	Skill Based Subject 2 - Computers in Fashion Design	2	25	75	100	3 3

U C D 3

	IV	19TBT301/ 19TAT301/ 19UHR3N1	Basic Tamil* / Advanced Tamil** / Non-major elective-2- Women's Rights**	2		75	75	3	2
	Total			30	-	-		-	
V		19UCD5IT	Internship training in Textile Unit / Garment Unit/ Boutique ****	Grade					
	III	19UCD507	C.P.7- Introduction to Technical Textiles	6	25	75	10 0	3	4
	III	19UCD508	C.P.8-Textile Testing and Quality Control	5	25	75	10 0	3	4
	III	19UCD5CS	C.Pr.8. Textile Testing	6	40	60	10 0	4	4
	III	19UCD5CT	C.Pr.9 –Computer Aided Design I	6	40	60	10 0	4	3
	III	19UCD5E1	Major Elective 1		25	75	10 0	3	5
	IV	19UCD5X1	EDC – Fashion Designing	2	25	75	10 0	3	3
	Total			30	-	-		-	
VI	III	19UCD609	C.P.9. Visual Merchandising	6	25	75	10 0	3	4
	III	19UCD6CU	C.Pr.10. Computer Aided Design – II	6	40	60	10 0	4	4
	III	19UCD6Z1	<i>Project Work***</i>	6	20	80	10 0	-	5
	III	19UCD6CV	C.Pr.11 Fashion Accessories Designing	5	40	60	10 0	3	3
	III	19UCD6E2	Major Elective 1I		25	75	10 0	3	5
	IV	19UCD6S3	Skill Based Subject 4 –	2	40	60	10	3	3

U C D 4

			Beauty Care				0		
			Total	30	-	-		-	
	V	19NCC/NSS /YRC/PYE/ ECC/RRC/ WEC101#	Extension Activities*	-	50	-	50	-	1
Grand Total				-	-	-	38 00	-	1 4 0

Note :

CBCS – Choice Based Credit system

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

@ Hindi/Malayalam/ French/ Sanskrit – 19HIN/MLM/FRN/SAN101 - 202

* - No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

** - No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal-20 marks

****The students of B.Sc., Costume Design and Fashion course shall undergo two weeks Internship Training at the end of the second and fourth semester (during summer vacation) and submit the report during the third and fifth semester .The report will be evaluated for 100 marks along with the Internal Viva-Voce by respected Faculty. According to their marks, the Grades will be awarded as given below.

Marks %	Grade
85 – 100	O
70 – 84	D
60 – 69	A
50 – 59	B
40 – 49	C
< 40	U (Reappear)

Major Elective Papers

(2 papers are to be chosen from the following 6 papers)

1. Pr. Home Furnishing
2. Fabric Care
3. Historic Costumes and Textiles of India
4. Fashion Forecasting
5. Computers in Textile Industry
6. Organization of Garment Unit

Non-Major Elective Papers:

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Extra Departmental Course (EDC) :

19UCD5X1 –Fashion Designing

List of Extension Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table:

S. No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	200	6
2.	II	English	200	6
3.	III	Core – Theory/Practical	2000	72
		Allied	400	20
		Electives/Project	300	15
4.	IV	Basic Tamil / Advanced Tamil/ Non-major electives	150	4
		Skill Based subject	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Extension Activities	50	1
		Total	3800	140

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Job Oriented Course (JOC) offered by the department

1. Basics of Cosmetology
2. Value Addition of Fabric- Dyeing
3. Printing Techniques
4. Jewellery making

5. Pattern Drafting
6. Eco Fashion
7. Toda Embroidery

Diploma Courses offered by the department

1. Fashion Design
2. Garment Construction
3. Garment Merchandising

UCB 01

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029**

**DEPARTMENT OF COMMERCE WITH BANKING & INSURANCE (UG)
Curriculum and scheme of Examination under CBCS
(Applicable to students Admitted from the Academic Year 2019-2020 onwards)**

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam	Credits
					CIA	ESE	TOTAL		
I	I	19TML1A1	Language I@	6	25	75	100	3	3
	II	19ENG101	English -I	6	25	75	100	3	3
	III	19UCB101	C.P.1 – Principles of Accountancy	5	25	75	100	3	4
	III	19UCB102	C.P.2 – Indian Banking System	5	25	75	100	3	4
	III	19UCB1A1	Allied 1– Business Mathematics	6	25	75	100	3	5
	IV	19EVS101	Environmental Studies **	2	-	50	50	3	2
Total (i)							550	-	21
II	I	19TML2A2	Language II@	6	25	75	100	3	3
	II	19ENG202	English –II	6	25	75	100	3	3
	III	19UCB203	C.P.3–Financial Accounting	5	40	60	100	3	4
	III	19UCB204	C.P.4–Fundamentals of Insurance	5	25	75	100	3	4
	III	19UCB2A2	Allied 2 - Business Statistics	6	25	75	100	3	5
	IV	19VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2
Total (ii)							550	-	21
Total (i)+(ii)							1100		42

@ Tamil/Hindi/Malayalam/ French/ Sanskrit – 19TML/HIN/MLM/FRN/SAN101 - 202

**No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

UCB 02

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/French/ Sanskrit	200	6
2.	II	English	200	6
3.	III	Core – Theory/Practical/Project	400	16
		Allied (2)	200	10
4.	IV	Environmental Studies	50	2
		Value Education	50	2
		Total	1100	42

Note :

CBCS – Choice Based Credit system CIA – Continuous Internal Assessment
ESE – End of Semester Examinations

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1- Remember ; **K2-** Understand; **K3-** Apply; **K4-** Analyze; **K5-** Evaluate

1.Theory Examination: Part I,II &III

(i) CIA I& II andESE:75 Marks

Knowledge level	Section	Marks	Description	Total
K1 Q1 to10	A(Answer all)	10 x 1=10	MCQ	75
K2 Q11to15	B(Either or pattern)	5 x 5=25	Short Answers	
K3& K4 Q16 to20	C(Either or pattern)	5 x 8=40	Descriptive / detailed	

Components of Continuous Internal Assessment

Components		Marks	Total
Theory CIA 1	75	(75+75=150 /10)	25
CIA 2	75	15	
Assignment/ Seminar		5	
Attendance		5	

**KONGUNADU ARTS & SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029**

Course Name : M.A. ENGLISH LITERATURE

CURRICULUM & SCHEME OF EXAMINATION UNDER CBCS

(Applicable to the students admitted from the Academic Year 2019-2020 and onwards)

Semester	Subject Code	TITLE OF THE PAPER	Instruction Hrs./cycle	MARKS			Exam Duration (Hrs.)	Credit Points
				CIA	ESE	Total		
I	19PEL101	Chaucer and the Elizabethan Age	6	25	75	100	3	4
	19PEL102	The Augustan and the Romantic Age	6	25	75	100	3	4
	19PEL103	The Victorian Age and the Twentieth Century English Literature	6	25	75	100	3	4
	19PEL104	Indian Writing in English	6	25	75	100	3	4
	19PEL1E1	Major Elective 1	6	25	75	100	3	5
		Total	30	-	-	500	-	21
II	19PEL205	Shakespeare	4	25	75	100	3	4
	19PEL206	American Literature	5	25	75	100	3	4
	19PEL207	New Literatures in English	5	25	75	100	3	4
	19PEL208	Literary Criticism	5	25	75	100	3	4
	19PEL209	Dalit Literature	5	25	75	100	3	4
	19PEL2E2	Major Elective 2	6	25	75	100	3	5
		Total	30	-	-	600	-	25

Semester	Subject Code	TITLE OF THE PAPER	Instruction Hrs./cycle	MARKS			Exam Duration (Hrs)	Credit Points
				CIA	ESE	Total		
III	19PEL310	Literary Theory	6	25	75	100	3	4
	19PEL311	Eco Literature	6	25	75	100	3	4
	19PEL312	Research Paper Writing	6	25	75	100	3	5
	19PEL313	The English Language	6	25	75	100	3	4
	19PEL3N1	Non Major Elective 1	6	25	75	100	3	5
		Total	30	-	-	500	-	22
IV	19PEL414	World Literature	6	25	75	100	3	4
	19PEL415	Single Author Study	6	25	75	100	3	4
	19PEL416	English Language Teaching	6	25	75	100	3	4
	19PEL4N2	Non Major Elective 2	6	25	75	100	3	5
	19PEL4Z1	Project and Viva Voce	6	40	160	200	3	5
		Total	30	-	-	600	-	22
	Grand Total		-	-	-	2200	-	90

Note:

CBCS-Choice Based Credit System

CIA-Continuous Internal assessment

ESE-End of Semester Examinations

Major Elective Papers

(2 papers are to be chosen from the following 4 papers)

1. Methods of Teaching in English
2. English Literature for Competitive Examinations (Online Exam)
3. Women's Studies
4. Oral and Written Communication Skills

Non Major Elective Papers

(2 papers are to be chosen from the following 4 papers)

1. Introduction to Linguistics
2. Theory & Practice of Journalism
3. Translation Theory and Practice
4. General Essay

TALLY TABLE:

SUBJECT	No. of Subjects	Total Marks	Credits
Core – Theory/Project	18	1800	70
Major Elective Papers	2	200	10
Non-Major Elective Papers	2	200	10
Grand Total	22	2200	90

- 25% CIA is applicable to all subjects except JOC,COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete **SWAYAM –MOOC** before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD . Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

ADVANCED LEARNERS COURSE (ALC) under Self Study Scheme (Optional)

Sem-II	19PEL0D1	ALC 1	The Art of Public Speaking	-	-	100	100	3	2
Sem- III	19PEL0D2	ALC2	Personality Development	-	-	100	100	3	2
Sem-IV	19PEL0D3	ALC 3	Women's Writings	-	-	100	100	3	2

JOB ORIENTED COURSE (JOC) SEMESTER-I
Reading and Writing Skills
CAREER ORIENTATION PROGRAMME (COP) SEMESTER-III
Copy Writing

Components of continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	(75+75 = 150/10)	25
	CIA 2	75	15	
	Assignment/Seminar		5	
	Attendance		5	
Project	Review		30	40
	Regularity		10	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remembering; K2-Understanding; K3-Applying; K4-Analyzing K5-Evaluating

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	120	160
K4		40	
K5	Viva voce		

M.A. ENGLISH LITERATURE

Question Paper Pattern (Under OBE Pattern)

(Applicable to students admitted from the academic year 2019-2020 and onwards)

Maximum Marks – 75 Marks

Time - 3hrs

For all Core Papers, Major & Non Major Electives the following pattern will be followed:

SECTION A (10X1=10 marks)

Questions **1 – 10**

Multiple Choice questions with four alternatives to be taken from all five Units.

Each Unit will have 2 multiple choice questions.

All Questions carry equal marks.

SECTION-B (5X5=25 marks)

Questions **11 – 15**

Short Notes in about **250 words** each of either/or type should be taken from all the five Units.

All Questions carry equal marks.

SECTION-C (5X8=40 marks)

Questions **16 – 20**

Essay type Questions in about **500 words** each of either/or type, should be taken from all five units.

Question Paper Pattern (ALC, COP & JOC)

For Advanced Learners Course (ALC), Career Oriented Program (COP) and Job Oriented Course (JOC)

Section-A Multiple Choice Questions (10x1=10 Marks)

Section-B-Either or Type (5X6=30 Marks) of about 150 words each.

Section-C-Either or Type (5X12=60 Marks) of about 600 words each.

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COIMBATORE – 641 029

Program Name : M.Sc Mathematics

Curriculum and scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2019-2020 and Onwards)

Semester	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam (hours)	Credits
				CIA	ESE	TOTAL		
I	19PMA101	Core Paper 1 Algebra	7	25	75	100	3	5
	19PMA102	Core Paper 2 Real Analysis	6	25	75	100	3	5
	19PMA103	Core Paper 3 Ordinary Differential Equations	7	25	75	100	3	5
	19PMA104	Core Paper 4 Numerical Methods	6	25	75	100	3	4
	19PMA1E1	Non Major Elective 1	4	25	75	100	3	5
	Total		30	-	-	500	-	24
II	19PMA205	Core Paper 5 Complex Analysis	7	25	75	100	3	4
	19PMA206	Core Paper 6 Partial Differential Equations	6	25	75	100	3	5
	19PMA207	Core Paper 7 Mechanics	6	25	75	100	3	5
	19PMA208	Core Paper 8 Programming in C – Theory	5	25	75	100	3	3
	19PMA2CL	Core Practical Programming in C – Practical	2	40	60	100	3	2
	19PMA2E2	Non Major Elective 2	4	25	75	100	3	5
	Total		30	-	-	600	-	24

PMA 2

III	19PMA309	Core Paper 10 Topology	7	25	75	100	3	5
	19PMA310	Core Paper 11 Functional Analysis	8	25	75	100	3	5
	19PMA311	Core Paper 12 Mathematical Statistics	8	25	75	100	3	5
	19PMA3N1	Major Elective 1	7	25	75	100	3	5
	Total		30	-	-	400	-	20
IV	19PMA412	Core Paper 13 Mathematical Methods	8	25	75	100	3	5
	19PMA413	Core Paper 14 Control Theory	8	25	75	100	3	5
	19PMA414	Core Paper 15 Object Oriented Programming with C++ - Theory	5	25	75	100	3	5
	19PMA4CM	Core Practical 2 Object Oriented Programming with C++ - Practical	2	40	60	100	3	2
	19PMA4N2	Major Elective 2	7	25	75	100	3	5
	19PMA4Z1	Project and Viva voce	-	40	160	200	-	
	Total		30	-	-	700	-	22
Grand Total				-	-	2200	-	90

Note :

CBCS – Choice Based Credit system

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

ADVANCED LEARNER'S COURSE (SELF STUDY)

	19PMA0D1	II Optional	ALC 1	Discrete Mathematics and Automata Theory	-	-	100	100	3	2
	19PMA0D2		ALC 2	Astronomy	-	-	100	100	3	2
	19PMA0D3		ALC 3	Internet and JAVA Programming	-	-	100	100	3	2

Major Elective Papers**(2 papers are to be chosen from the following 6 papers)**

1. Fluid Dynamics
2. Graph Theory
3. Fundamentals of Actuarial Mathematics
4. Cryptography
5. Stochastic Process
6. Mathematical Modelling

Non Major Elective Papers**(2 papers are to be chosen from the following 4 papers)**

1. System Analyses and Design
2. Visual Basic and Oracle
3. Fuzzy Logic and Neural networks
4. Measure and Integration

Tally Table:

Subject	No. of Subjects	Total Marks	Credits
Core – Theory / Practical / Project	18	1800	70
Major Elective Papers	2	200	10
Non Major Elective Papers	2	200	10
Grand Total	22	2200	90

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75	15	
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		30	40
Regularity		10	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN**K1-Remembering;K2-Understanding;K3-Applying;K4-Analyzing;K5-Evaluating****1. Theory Examination****CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5			

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	120	160
K4		40	
K5	Viva voce		

PPH1
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE-641 029

M.Sc., PHYSICS
Curriculum and Scheme of Examination under CBCS
(Applicable to students admitted during the Academic year 2019–2020 and onwards)

Semester	Subject code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam. Hrs.	Credits
				CIA	ESE	Total		
I	19PPH101	C.P 1- Classical Mechanics	5	25	75	100	3	5
	19PPH102	C.P 2- Mathematical Physics	5	25	75	100	3	5
	19PPH103	C.P 3- Condensed Matter Physics-I	5	25	75	100	3	5
	19PPH1E1	1E1-Major Elective 1	5	25	75	100	3	5
	19PPH2CL	C. Pr 1- General Experiments	5	-	-	-	-	-
	19PPH2CM	C. Pr 2- Electronics Experiments	5	-	-	-	-	-
			30	100	300	400		20

II	19PPH204	C.P 4- Quantum Mechanics –I	5	25	75	100	3	4
	19PPH205	C.P 5- Thermodynamics and Statistical mechanics	5	25	75	100	3	4
	19PPH206	C.P 6- Problems in Physics	5	25	75	100	3	4
	19PPH2E2	2E2-Major Elective 2	5	25	75	100	3	5
	19PPH2CL	C.Pr 1 - General Experiments	5	40	60	100	4	3
	19PPH2CM	C.Pr 2 - Electronics Experiments	5	40	60	100	4	3
			30	180	420	700		23

III	19PPH307	C.P 7- Quantum Mechanics-II	5	25	75	100	3	5
	19PPH308	C.P 8- Electromagnetic theory and Electrodynamics	5	25	75	100	3	5
	19PPH310	C.P. 9 Condensed Matter Physics-II	5	25	75	100	3	5
	19PPH3N1	3N1 – Non Major Elective I	5	25	75	100	3	5
	19PPH4CN	C. Pr 3- Advanced Experiments	5	-	-	-	-	-
	19PPH4CO	C. Pr 4 - Special Electronics Experiments	5	-	-	-	-	-
			30	100	150	400		20

PPH2

IV	19PPH410	C.P. 10 Communication Physics	5	25	75	100	3	4
	19PPH411	C.P 11 - Atomic & Molecular Spectroscopy	5	25	75	100	3	4
	19PPH412	C.P 12 - Nuclear and Particle Physics	5	25	75	100	3	4
	19PPH4N2	4N2 – Non Major Elective II	5	25	75	100	3	5
	19PPH4CN	C. Pr 3 - Advanced Experiments	5	40	60	100	6	3
	19PPH4CO	C. Pr 4 - Special Electronics Experiments	5	40	60	100	6	3
	19PPH4Z1	Project and Viva Voce		40	160	200	-	4
			30	220	580	800		27
		Total				2200		90

Note:

- CBCS - Choice Based Credit System
- CIA - Continuous Internal Assessment
- ESE - End of Semester Examination

Major Elective papers

(2 papers are to be chosen from the following 4 papers)

- 1. Electronics and Microprocessors**
- 2. Applied Physics**
3. Energy Physics
4. Industrial Physics

Non - Major Elective Papers

(2 papers are to be chosen from the following 4 papers)

- 1. Nanotechnology: Principles and Applications**
- 2. Thin Film Physics, Plasma Physics and Crystal growth**
3. Atmospheric Science
4. Biomedical Instrumentation

Advanced Learner's Course – Advanced Experimental Techniques

Tally Table :

Part	Subject	No. of Subjects	Marks	Credits
I	Core – Theory / Practical / Project	18	1800	70
	Major Elective Paper	2	200	10
	Non-Major Elective Paper	2	200	10
	Grand Total	22	2200	90

- 25% of CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM- MOOC** before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75	15	
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		30	40
Regularity		10	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remembering; **K2**-Understanding; **K3**-Applying; **K4**-Analyzing; **K5**-Evaluating

1. Theory Examination**CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce*:

Knowledge Level	Section	Marks	Total
K3	Project Report	120	160
K4		40	
K5	Viva voce		

* Projects report and Viva voce will be evaluated jointly by Project Supervisor (Faculty of the Department) and an External Examiner.

4. Add On Course**Advanced Learners Course (ALC)**

Section A – Multiple Choice ($10 \times 1 = 10$ marks)

Section B – Either or type ($5 \times 6 = 30$ marks)

Section C – Either or type ($5 \times 12 = 60$ marks)

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029

Course Name: M.Sc., Chemistry

Curriculum and Scheme of Examination under CBCS

(Applicable to students admitted during the academic year 2019 – 2020)

Semester	Course code / Q.P.Code	Title of the Course	Instruction hours/cycle	Exam. Marks			Duration of Exam (Hrs)	Credits
				CIA	ESE	Total		
I	19PCH101	C.P.-1- Organic Chemistry - I	5	25	75	100	3	5
	19PCH102	C.P. 2 - Inorganic Chemistry - I	5	25	75	100	3	5
	19PCH103	C.P. 3 - Physical Chemistry - I	5	25	75	100	3	5
	19PCH1E1	ME-1 Major Elective - I	5	25	75	100	3	5
		C.Pr.1 - Organic Chemistry Practical - I	3	-	-	-	-	-
		C.Pr.2 - Inorganic Chemistry Practical-I	3	-	-	-	-	-
		C.Pr.3 - Physical Chemistry Practical-I	4	-	-	-	-	-
Total			30			400		20
II	19PCH204	C.P. 4 - Organic Chemistry - II	5	25	75	100	3	5
	19PCH205	C.P. 5 - Inorganic Chemistry - II	5	25	75	100	3	5
	19PCH2E2	ME-2 - Major Elective - II	5	25	75	100	3	5
	19PCH2CL	C.Pr.1 - Organic Chemistry Practical - I	5	40	60	100	6	3
	19PCH2CM	C.Pr.2 - Inorganic Chemistry Practical-I	5	40	60	100	6	3
	19PCH2CN	C.Pr.3 - Physical Chemistry Practical-I	5	40	60	100	6	2
Total			30			600		23
III	19PCH306	C.P. 6 - Physical Chemistry - II	5	25	75	100	3	5
	19PCH307	C.P.7 - Organic Chemistry - III	5	25	75	100	3	5
	19PCH308	C.P.8- Inorganic Chemistry-III	5	25	75	100	3	5
	19PCH3N1	NME- 2 - Non-Major Elective - I	5	25	75	100	3	5
	19PCH3CO	C.Pr.4 - Physical Chemistry Practical - II	4	40	60	100	6	2
		C.Pr.5 - Organic Chemistry Practical - II	3	-	-	-	-	-
		C.Pr.6 - Inorganic Chemistry Practical- II	3	-	-	-	-	-
Total			30			500		22
IV	19PCH409	C.P.9 - Physical Chemistry - III	5	25	75	100	3	5
	19PCH410	C.P. 10 - Spectroscopy	5	25	75	100	3	5
	19PCH4N2	NME- 2 - Non-Major Elective - II	5	25	75	100	3	5
	19PCH4CP	C.Pr.5 - Organic Chemistry Practical - II	5	40	60	100	6	2
	19PCH4CQ	C.Pr.6 - Inorganic Chemistry Practical-II	5	40	60	100	6	2
	19PCH4Z1	Project Work & Viva -Voce	5	40	160	200	-	6
Total			30			700		25
Total						2200		90

Major Electives papers**(2 papers are to be chosen from the following 4 papers)**

1. Analytical Techniques in Chemistry
2. Green and Nano Chemistry
3. Bioinorganic chemistry
4. Selected topics in chemistry

Non-Major Electives papers**(2 papers are to be chosen from the following 4 papers)**

1. Chemistry of Environment
2. Scientific thesis writing
3. Textile and Dye Chemistry
4. Industrial Chemistry

Tally Table

S.No	Subject	No. of Subjects	Marks	Credits	Total	
					Marks	Credits
01	Core				1800	70
	i. Theory	10	1000	47		
	ii. Practicals	06	600	17		
	iii. Project work	01	200	06		
02	Major Electives	02	200	10	200	10
03	Non-Major Electives	02	200	10	200	10
		Total			2200	90

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Note :

CBCS – Choice Based Credit system

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

Extra credit courses

JOB ORIENTED COURSE								
Semester	Course code / Q.P. Code	Title of the Course	Instruction hours/cycle	Exam. Marks			Duration of Exam (Hrs)	Credits
				CIA	ESE	Total		
	19PCH0J1	JOC - Pharmaceutical Chemistry	6	-	100	100	3	2
ADVANCED LEARNER COURSES (UNDER SELF STUDY SCHEME)								
	19PCH0D1	ALC- 1 Chemistry of Corrosion and its Prevention	-	-	100	100	3	2
	19PCH0D2	ALC- 2 Chemistry of Drugs	-	-	100	100	3	2
	19PCH0D3	ALC- 3 Food Chemistry	-	-	100	100	3	2

JOC is conducted for 6 hours per cycle outside the college hours.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75	15	
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		30	40
Regularity		10	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN**K1-Remembering;K2-Understanding;K3-Appling;K4-Analyzing;K5-Evaluating****1. Theory Examination****CIA I & II and ESE: 75 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments Record Work	50	60
K4		10	
K5			

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	120	160
K4		40	
K5	Viva voce		

QUESTION PAPER PATTERN FOR ESE**JOC and ALC****Maximum marks: 100**

Section	Marks	Description	Total
A (Answer all) Q.No.1 to 10	10 X 1 = 10	MCQ	100
B (Either or pattern) Q.No.11 to 15	5 X 6 = 30	Short Answers	
C (Either or pattern) Q.No.16 to 20	5 X 12 = 60	Descriptive / Detailed answers	

PBO1

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

COIMBATORE – 641 029

Course Name :--M.Sc Botany

Curriculum and scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2019-2020)

Semester	Subject Code	Title of the Paper	Instruction hours /cycle	Exam Marks			Duration of Exam (hours)	Credits
				CIA	ESE	Total		
I	19PBO101	C.P.1 - Plant Diversity I	7	25	75	100	3	5
	19PBO102	C.P.2 - Plant Diversity II	7	25	75	100	3	5
	19PBO103	C.P.3 – Anatomy, Embryology of Angiosperms and Microtechniques	6	25	75	100	3	5
	19PBO1E1	Major Elective I	6	25	75	100	3	5
	19PBO1CL	C.Pr.1 - Plant Diversity I & II , Anatomy, Embryology of Angiosperms and Microtechniques	4	40	60	100	4	2
	Total		30	-	-		-	
II	19PBO204	C.P.4- Bioinformatics	6	25	75	100	3	4
	19PBO205	C.P.5 - Cell biology, Genetics and Plant Breeding	7	25	75	100	3	5
	19PBO206	C.P.6 - Ecology, Bioenergetics and Natural Resource Management	7	25	75	100	3	5
	19PBO2E2	Major Elective II	6	25	75	100	3	5
	19PBO2CM	C.Pr. 2 - Bioinformatics , Cell biology, genetics, plant breeding, ecology, bioenergetics and natural resources management	4	40	60	100	4	2
	Total		30	-	-		-	
III	19PBO307	C.P.7 - Taxonomy and Biosystematics	7	25	75	100	3	5
	19PBO308	C.P.8 - Microbiology and Plant Pathology	7	25	75	100	3	5
	19PBO309	C.P.9 - Biophysics and Biostatistics	6	25	75	100	3	5
	19PBO3N1	Non major Elective I	6	25	75	100	3	4
	19PBO3CN	C.Pr.3 - Taxonomy and Biosystematics, Microbiology, plant pathology, Biophysics and Biostatistics	4	40	60	100	4	2
	Total		30	-	-		-	
IV	19PBO410	C.P.10 - Biochemistry and Bioinstrumentation	6	25	75	100	3	5
	19PBO411	C.P.11 - Plant Physiology	6	25	75	100	3	5
	19PBO412	C.P.12 Plant Biotechnology	6	25	75	100	3	5
	19PBO4N2	Non major Elective II	6	25	75	100	3	4
	19PBO4CO	C.Pr.4 – Biochemistry, Bioinstrumentation, Plant Physiology and Plant Biotechnology	4	40	60	100	4	2
	19PBO4Z1	Project Work & Viva - Voce	2	40	160	200	-	6
	Total		30	-	-		-	
Grand Total			120	-	-	2200	-	90

Note :

CBCS – Choice Based Credit system

CIA – Continuous Internal Assessment

ESE – End of Semester Examinations

Major Elective Papers

(2 papers are to be chosen from the following 4 papers)

1. Forest Resources and Utilization
2. Seed Technology
3. Food Science and Nutrition
4. Biotechnology and Nanobiology

Non-Major Elective Papers

(2 papers are to be chosen from the following 4 papers)

1. Horticulture
2. Pharmacognosy
3. Medicinal Plants
4. Limnology

Tally Table:

Part	Subject	No. of Subjects	Total Marks	Credits
I	Core - Theory / Practical / Project	19	1900	70
	Major Elective Paper	2	200	10
	Non - Major Elective Paper	2	200	10
	Grand Total	22	2200	90

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **Field Trip** preferably relevant to the course should be undertaken every year.

Extra Credit Courses

Semester	Subject Code	Title of the Paper	Instruction hours /cycle	Exam Marks			Duration of Exam (hours)	Credits
				CIA	ESE	Total		
II	19PBO2J1	JOC - Floriculture and Landscaping	4	-	100	100	3	2
	19PBO2J2	JOC - Food Processing and Preservation	4	-	100	100	3	2

Diploma Courses**Biodiversity - Principles, Management and Conservation.**

Semester	Subject Code	Title of the Paper	Instruction hours /cycle	Exam Marks			Duration of Exam (hours)	Credits
				CIA	ESE	Total		
I	19PDB101	C.P.1. Introduction to Biodiversity	2	25	75	100	3	2
	19PDB102	C.P.2 . Values, uses and loss of Biodiversity	2	25	75	100	3	2
	19PDB103	C.P.3. Conservation and management of Biodiversity	2	25	75	100	3	2
	19PDB1CL	C.Pr.1. Biodiversity	2	40	60	100	3	2
		Total	8			400		8
II	19PDB204	C.P.4. Biodiversity prospecting and indigenous knowledge system (IKS) and Biotechnology for Biodiversity	2	25	75	100	3	2
	19PDB205	C.P.5. Wildlife biology and conservation policies and law	2	25	75	100	3	2
	19PDB2Z1	Project	4	40	160	200	-	4
		Total	8			400		8
		Grand total	16			800		16

Note:

CBCS - Choice Based Credit System

CIA - Continuous Internal Assessment

ESE - End of Semester Examinations

25 % CIA is applicable to all subjects except JOC, ALC, COP and Diploma Courses, which are considered as extra credit courses.

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10) 15	25
CIA II	75		
Assignment/Seminar		5	
Attendance		5	
Practical			
CIA Practical		25	40
Observation Notebook		10	
Attendance		5	
Project			
Review		30	40
Regularity		10	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1 - Remember; **K2** - Understanding; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

1. Theory Examination: CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4	Record Work	10	
K5			

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report Viva - voce	120	160
K4		40	
K5			

PZO 1

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029**

Course Name: M.Sc., Zoology

Curriculum and scheme of Examination under CBCS

(Applicable to students Admitted from the Academic Year 2019-2020)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam (hours)	Credits
					CIA	ESE	TOTAL		
SEMESTER I									
I	I	19PZO101	Core Paper 1 Animal physiology	6	25	75	100	3	5
		19PZO102	Core Paper 2 Cell and Molecular biology	5	25	75	100	3	4
		19PZO103	Core Paper 3 Biotechnology	6	25	75	100	3	5
		19PZO104	Core Paper.4 Aquaculture	5	25	75	100	3	5
		19PZO2CL	Core Practical. 1	4	-	-	-	-	-
		19PZO2CM	Core Practical. 2	4	-	-	-	-	-
			Total	30			400		19
SEMESTER II									
II	I	19PZO205	Core Paper 5 Biostatistics and Bio informatics	6	25	75	100	3	5
		19PZO206	Core Paper 6 Molecular Genetics	6	25	75	100	3	5
		19PZO207	Core Paper 7 Microbiology and Immunology	6	25	75	100	3	4
		19PZO2CL	Core Practical 1	4	40	60	100	4	2

PZO 2

		19PZO2CM	Core Practical 2	4	40	60	100	4	2
		19PZO2N1	Non Major Elective I	4	25	75	100	3	5
			Total	30			600		23
SEMESTER III									
III	I	19PZO308	Core Paper 8 Entomology	5	25	75	100	3	5
		19PZO309	Core Paper 9 Bio physics and Bioinstrumentation	4	25	75	100	3	4
		19PZO310	Core Paper 10 Developmental Biology	5	25	75	100	3	5
		19PZO4CN	Core Practical .3	4	-	-	-	-	-
		19PZO4CO	Core Practical .4	4	-	-	-	-	-
		19PZO3N2	Non Major Elective. II	4	25	75	100	3	5
		19PZO3E1	Major Elective. I	4	25	75	100	3	5
			Total	30			500		24
SEMESTER IV									
IV	I	19PZO411	Core Paper 11 Biodiversity and Evolution	5	25	75	100	3	5
		19PZO412	Core Paper.12 Applied Entomology	6	25	75	100	3	5
		19PZO4CN	Core Practical 3	4	40	60	100	4	2
		19PZO4CO	Core Practical .4	4	40	60	100	4	2
		19PZO4E2	Major Elective II	6	25	75	100	3	5
		19PZO4Z1	Project and Viva voce	5	40	160	200	-	5
			Total	30			700		24
			Grand Total				2200		90

Note:

CBCS – Choice Based Credit System
 CIA – Continuous Internal Assessment
 ESE – End of Semester Examinations

MAJOR ELECTIVE PAPERS

(2 papers are to be chosen from the following 4 papers)

1. Environmental Biology
2. Wild Life Ecology and Management
3. Environmental Biology and Toxicology
4. Poultry Science and Management

NON –MAJOR ELECTIVE PAPERS

(2 papers are to be chosen from the following 3 papers)

1. Nutrition and Dietetics
2. Bioinformatics
3. Nanobiotechnology
4. Human genetics and Counseling

Tally Table:

Part	Subject	No. of Subjects	Total Marks	Credits
I	Core – Theory / Practical / Project	18	1800	70
	Major Elective Paper	2	200	10
	Non Major Elective Paper	2	200	10
	Grand Total	22	2200	90

- 25 % CIA is applicable to all theory subjects except JOC, ALC, COP and Diploma Courses, which are considered as extra credit courses.
- The students are advised to complete a **SWAYAM-MOOC** before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A **field Trip** preferably relevant to the course should be undertaken every year.

PZO4

Components of Continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	75+75=150/10 15	25
	Assignment / Seminar		5	
	Attendance		5	
Practical				
	CIA Practical		25	40
	Observation Notebook		10	
	Attendance		5	
Project				
	Review		30	40
	Regularity		10	

Bloom's Taxonomy Based Assessment Pattern

K1- Remember ; K2-Understanding ; K3- Applying ; K4- Analyzing ; k5 – Evaluating

1.Theory Examination – Part I, II and III**(i) CIA I & II and ESE : 75 Marks**

Knowledge level	Section	Marks	Description	Total
K1 Q 1 to 10	A (Answer all)	10X1=10	MCQ	75
K2 Q 11 to 15	B (Either or Pattern)	5X5 = 25	Short Answer	
K3 & K4 Q 16 to 20	C (Either or Pattern)	5X8 = 40	Descriptive/ Detailed	

(ii) CIA I & II and ESE : 55 Marks

Knowledge level	Section	Marks	Description	Total
K1 Q 1 to 10	A (Answer all)	10X1=10	MCQ	55
K2 Q 11 to 15	B (Either or Pattern)	5X3 = 15	Short Answer	
K3 & K4 Q 16 to 20	C (Either or Pattern)	5X6 = 30	Descriptive/ Detailed	

2.Practical Examination:

Knowledge level	Section	Marks	Total
K3	Experiments	50	60
K4	Record Work	10	
K5			

3. Project Viva-Voce :

Knowledge level	Section	Marks	Total
K3	Project Report Viva-Voce	120	160
K4		40	
K5			

PBC 1
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
 Re-accredited by NAAC with 'A' Grade Status – 3.64 CGPA out of 4 (3rd Cycle)
 College of Excellence (UGC)
COIMBATORE – 641029, TAMIL NADU, INDIA.
Course Name: M.Sc. Biochemistry
Curriculum and Scheme of Examination under CBCS
(Applicable for the Students Admitted during the Academic Year 2019-2020)

Semester	Subject code/ Question paper code	Title of the paper	Instruction hours/cycle	Exam Marks				Credits
				CIA	ESE	Total	Duration of Exam (Hrs)	
I	19PBC101	C.P.1 Biomolecules	5	25	75	100	3	4
	19PBC102	C.P.2 Bioanalytical Techniques	5	25	75	100	3	4
	19PBC103	C.P.3 Enzymes and Enzyme Technology	5	25	75	100	3	4
	19PBC104	C.P.4 Cell Biology	5	25	75	100	3	4
	19PBC105	C.P.5 Hormonal Biochemistry	5	25	75	100	3	4
	19PBC1CL	C.Pr.1 Lab in Biomolecules, Bioinstrumentation, Enzymology and Cell Biology	5	40	60	100	6	4
Total Hours			30	140	360	600		24
II	19PBC206	C.P.6 Plant Biochemistry and Biotechnology	5	25	75	100	3	4
	19PBC207	C.P.7 Intermediary Metabolism	5	25	75	100	3	4
	19PBC208	C.P.8 Genetics and Molecular Biology	5	25	75	100	3	4
	19PBC209	C.P.9 Drug Biochemistry	5	25	75	100	3	4
	19PBC2CM	C.Pr.2 Lab in Plant Biochemistry, Microbiology, Genetics and Molecular Biology	5	40	60	100	5	4
	19PBC2E1	E.P.1 Major Elective- I	5	25	75	100	3	5
Total Hours			30	165	435	600		25
III	19PBC310	C.P.10. Immunology	5	25	75	100	3	4
	19PBC311	C.P.11 Genetic Engineering	5	25	75	100	3	4
	19PBC312	C.P.12 Clinical Biochemistry	5	25	75	100	3	4
	19PBC313	C.P.13 Biostatistics and Research Methodology	5	25	75	100	3	5
	19PBC3CN	C.Pr.3 Lab in Immunology, Genetic Engineering and Clinical Biochemistry	5	40	60	100	5	4
	19PBC3N1	E.P.1 Non-major Elective –I (On-line)	5	25	75	100	3	5
	19PBC3ST	Summer training*	-	-	-	-	-	-
Total Hours			30	165	435	600		26
IV	19PBC4E2	E.P.2 Major Elective- II	5	25	75	100	3	5
	19PBC4N2	E.P.2 Non-major Elective –II (On-line)	5	25	75	100	3	5
	19PBC4Z1	Project and Viva-voce	20	40	160*	200	-	5
Total Hours			30	115	385	400		15
GRAND TOTAL			120	585	1615	2200		90
*Project record 120 marks + Viva-voce examination 40 marks								

PBC 2

Note: *The students shall undergo a Summer training for a minimum period of 30 days at the end of the second semester during summer vacation and submit the report in the third semester. The report will be evaluated for 100 marks along with the internal viva voce by the faculty members and HoD. According to their marks, the grades will be awarded as given below.

Marks (%)	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

ADVANCED LEARNERS COURSE UNDER SELF STUDY SCHEME (Optional)

19PBCOD1	Forensic Sciences
19PBCOD2	Nutraceuticals and Functional foods
19PBCOD3	Stem Cell Biology

JOB ORIENTED COURSE

19PBCOJ1	Bio entrepreneurship
19PBCOJ2	Food safety and Quality control
19PBCOJ3	Clinical and therapeutic nutrition

CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

19PBC0F1	Paper I: Biochemistry
19PBC0F2	Paper II: Clinical Pathology and Microbiology-I
19PBC0F3	Practical I
19PBC0F4	On the Job training

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

19PBC0F5	Paper I: Anatomy, Physiology and Laboratory safety
19PBC0F6	Paper II: Clinical Pathology and Medical Microbiology II
19PBC0F7	Practical II
19PBC0F8	On the Job training

Tally Table:

Subjects	Total Marks	Total Credits
Core Paper/Practical/Project (17)	1800	70
Major Elective (2)	200	10
Non – Major Elective (2)	200	10
Grand Total	2200	90

Note: JOC, ALC are offered to the students admitted during the academic year 2019-20 and will be considered as extra credit courses

CBCS - Choice Based Credit System
C.P - Core Paper
C.Pr. - Core Practical

PBC-3

JOC	-	Job Oriented Course
ALC	-	Advanced Learners Course
CIA	-	Continuous Internal Assessment
ESE	-	End of Semester Examination

25 % CIA is applicable for all theory papers

40% CIA is applicable for all practical papers

Major Elective Papers

1. Nanobiotechnology
2. Microbiology
3. Bioinformatics
4. Bioethics, Biosafety and IPR

Non – Major Elective Papers (On-line exam)

1. Environmental Management
2. Competitive Sciences
3. Bioprocess Technology
4. Cancer Biology

Students must select two major electives and two non-major electives from the above list of papers.

PBT01

KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)
COIMBATORE-641 029.

M.Sc. BIOTECHNOLOGY

Curriculum & Scheme of Examination under CBCS

(Applicable to Students Admitted from the Academic Year 2019-2020 and onwards)

Semester	Subject Code	Title of the Paper	Instruction Hours / cycle	Exam. Marks			Duration of Exam. Hrs.	Credits
				CIA	ESE	Total		
I	19PBT101	C.P.1 – Biochemistry	5	25	75	100	3	5
	19PBT102	C.P.2 – Biostatistics and Bioinstrumentation	5	25	75	100	3	5
	19PBT103	C.P.3 - Cell Biology and Molecular Genetics	5	25	75	100	3	5
	19PBT104	C.P.4 – Microbiology	5	25	75	100	3	5
	19PBT1CL	C.Pr.1- Lab in Biochemistry, Biostatistics and Bioinstrumentation	5	40	60	100	6	3
	19PBT1CM	C.Pr.2- Lab in Molecular Genetics and Microbiology	5	40	60	100	6	3
	Total		30	-	-	600	-	26
II	19PBT205	C.P.5 – Genetic Engineering	5	25	75	100	3	4
	19PBT206	C.P.6 – Immunotechnology	5	25	75	100	3	4
	19PBT207	C.P.7 - Animal Biotechnology	5	25	75	100	3	4
	19PBT208	C.P.8 - Environmental Biotechnology and Bionanotechnology	5	25	75	100	3	4
	19PBT2CN	C.Pr.3 - Lab in Molecular Biology and Genetic Engineering	5	40	60	100	6	3
	19PBT2CO	C.Pr.4 - Lab in Immunotechnology, Animal Biotechnology and Environmental Biotechnology	5	40	60	100	6	3
	Total		30	-	-	600	-	22
III	19PBT309	C.P.9 – FermentationTechnology	5	25	75	100	3	5
	19PBT310	C.P.10 - Plant Biotechnology	5	25	75	100	3	5
	19PBT411	C.P.11 - Genomics, Proteomics and Computational Biology	5	25	75	100	3	5
	19PBT1E1	Major Elective I	5	25	75	100	3	5
	19PBT3CP	C.Pr.5 -Lab in Fermentation Technology, Plant Biotechnology and Computational Biology	5	40	60	100	6	3
	19PBT3N1	Non-Major Elective I – (On-line)	5	25	75	100	3	5
	19PBT3ST	Summer Training @	-	-	-	-	-	-
	Total		30	165	435	600	-	27
IV	19PBT3E2	Major Elective II	5	25	75	100	3	5
	19PBT4N2	Non-Major Elective II - (On-line)	5	25	75	100	3	5
	19PBT4Z1	Project Work *	20	40	160*	200	3	5
	Total		30	90	310	400	-	15
			120	-	-	2200	-	90

PBT02

Note: CBCS – Choice Based Credit System; CIA – Continuous Internal Assessment;

ESE – End of Semester Examinations; C.P. - Core Paper; C. Pr. – Core Practical

* Project Report – 140 marks; Viva-voce – 20 marks; Internal – 40 marks

@ The students shall undergo an Internship training/field work for a minimum period of 3 weeks at the end of the fourth semester during summer vacation and submit the report in the fifth semester. The report will be evaluated for 100 marks along with the internal viva voce by the faculty members and HoD. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U (Reappear)

Major Elective Papers (2 papers are to be chosen from the following 4 papers)

1. Pharmaceutical Biotechnology
2. Bioethics, Biosafety, IPR and Total Quality Management
3. Natural Products
4. Bioentrepreneurship, Marine and algal biotechnology

Non-Major Elective Papers (2 papers are to be chosen from the following 2 papers)

1. Competitive Science – I
2. Competitive Science - II
3. Food Technology
4. Cancer Biology

Tally Table:

Part	Subject	No. of Subjects	Total Marks	Credits
I	Core – Theory / Practical / Project	18	1800	70
	Major Elective Paper	2	200	10
	Non Major Elective Paper	2	200	10
	Grand Total	22	2200	90

Advanced Learner's Course (ALC) under self-study scheme (optional)

Subject Code	Title of the Paper	Exam Marks		Duration of Exam (hours)	Credits
		ESE	Total		
19PBT01	ALC.1- Frontier Technologies in Biosciences	100	100	3	2
19PBT02	ALC.2- Stem Cell Technology	100	100	3	2

- 25 % CIA is applicable to all theory subjects. Proportion of CIA and ESE for practical is 40: 60.
- JOCs are optional for earning extra credits and are conducted 4 hours / cycle after college hours.

PBT03

Job Oriented Courses (JOC):

1. JOC 1 – Plant Tissue Culture and Organic Farming (19PBTJ1)
2. JOC 2 – Herbal Biotechnology (19PBTJ2)

Note: JOC and ALC which are offered at present will be applicable for the students admitted during the academic year 2019-2020 and will be considered as extra credit courses.

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- The students are advised to complete a SWAYAM-MOOC before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.
- A Field Trip preferably relevant to the course should be undertaken every year.

Components of Continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	(75+75 = 150/10)	25
	CIA 2	75	15	
	Assignment/ Demonstration/Seminar		5	
	Attendance		5	
Practical	CIA Practical		25	40
	Observation Notebook		10	
	Attendance		5	
Project	Review		15+15	40
	Regularity		5+5	

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remember; K2-Understanding; K3-Apply; K4-Analyze; K5-Evaluate

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

PBT04**(ii) CIA I & II and ESE: 55 Marks**

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	55
K2 Q11 to 15	B (Either or pattern)	5 x 3 = 15	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 6 = 30	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments	50	60
K4		10	
K5	Record Work		

3. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report	160	160
K4		20	
K5	Viva voce		

PCS 1
KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]
COIMBATORE - 641 029
MASTER OF SCIENCE IN COMPUTER SCIENCE

CURRICULUM & SCHEME OF EXAMINATION UNDER CBCS

[APPLICABLE TO THE STUDENTS ADMITTED DURING THE ACADEMIC YEAR 2019-2020]

Semester	Subject code	Title of the Paper	Instruction Hours / Cycle	Exam. Marks			Duration of Exam.(hours)	Credits
				CIA	ESE	Total		
I	19PCS101	C.P.1 Data Structures using Python	5	25	75	100	3	4
	19PCS102	C.P.2 Wireless Networks	5	25	75	100	3	4
	19PCS103	C.P.3 Information Security	5	25	75	100	3	4
	19PCS104	C.P.4 Relational Database Management Systems	5	25	75	100	3	4
	19PCS1CL	C.Pr.1 Data Structures using Python Lab	5	30	45	75	3	3
	19PCS1CM	C.Pr.2 RDBMS Lab	5	30	45	75	3	3
	Total		30					
II	19PCS205	C.P.5 Advanced Java Programming	4	25	75	100	3	4
	19PCS 206	C.P.6 Data Mining and Warehousing	4	25	75	100	3	4
	19PCS 207	C.P.7 .NET Framework	4	25	75	100	3	4
	19PCS 208	C.P.8 Software Development and Quality Assurance	4	25	75	100	3	4
	19PCS2E1	Major Elective Paper – I	4	25	75	100	3	4
	19PCS2CN	C.Pr.3 Advanced Java Lab	5	30	45	75	3	3
	19PCS2CO	C.Pr.4 .NET Lab	5	30	45	75	3	3
	Total		30					
III	19PCS 309	C.P.9 Web Technologies	5	25	75	100	3	4
	19PCS 310	C.P.10 Unix Programming	5	25	75	100	3	4
	19PCS 311	C.P.11 Big Data Analytics	5	25	75	100	3	4
	19PCS 3E2	Major Elective Paper - II	5	25	75	100	3	4
	19PCS 3Z1	Mini Project	---	15	60*	75	3	3
	19PCS3CP	C.Pr.5 Web Technologies Lab	5	30	45	75	3	3
	19PCS3CQ	C.Pr.6 Unix Programming Lab	5	30	45	75	3	3
	Total		30					

IV	19PCS412	C.P.12 Internet of Things	5	25	75	100	3	4
	19PCS4E3	Non-Major Elective Paper - I	5	25	75	100	3	4
	19PCS4CR	C.Pr.7 Internet of Things Lab	5	30	45	75	3	3
	19PCS4Z2	Project and Viva-Voce	15	40	160**	200	3	6
	Total		30					
GRAND TOTAL			120			2300		90

*Project Record – 45 and Viva-Voce – 15

**Project Record – 120 and Viva-Voce – 40

Major Elective Papers:

1. Network Security And Cryptography
2. Bio Inspired Computing
3. Advanced Computing
4. Green Computing
5. Artificial Intelligence and Machine Learning
6. Computational Intelligence

Non Major Elective Papers:

1. Management Information Systems
2. Bio Informatics
3. Robotics

Tally Table:

Subject	No. of Subjects	Total Marks	Credits
Core – Theory	12	1200	48
Core – Practical	7	525	21
Major Elective Papers	2	200	8
Non Major Elective Papers	1	100	4
Mini Project	1	75	3
Project	1	200	6
Grand Total	24	2300	90

PCS 3

- 25 % CIA is applicable to all Subjects except JOC, COP and Swayam Courses which are considered as Extra Credit Courses
- The Students are advised to complete a Swayam, MOOC before the completion of the Third Semester and the Course Completed Certificate should be submitted to the HoD. Two Credits will be given to the Candidates who have successfully completed the course
- A Field trip preferably relevant to the course should be undertaken every year.

Note:

CBCS - Choice Based Credit System

CIA - Continuous Internal Assessment

ESE - End of Semester Examinations

ADVANCED LEARNERS COURSE [ALC] - SELF STUDY SCHEME [OPTIONAL]

Subject Code	Title of the Paper	Instruction Hours/Cycle	Exam Marks			Duration of the Exam.(Hours)	Credits
			CIA	ESE	TOTAL		
19PCS0D1	ALC.1 Programming in C#	-	-	100	100	3	4
19PCS0D2	ALC.2 J2EE	-	-	100	100	3	4

Components of Continuous Internal Assessment

Components		Marks	Total
Theory			
CIA I	75	(75+75 = 150/10)	25
CIA II	75		
Assignment/ Seminar		5	
Attendance		5	
Practical			
CIA Practical		20	30
Observation Notebook		5	
Attendance		5	
Mini Project			
Review		10	15
Regularity		5	
Project			
Review		30	40
Regularity		10	

PCS 4
BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1-Remembering; K2-Understanding; K3-Appling; K4-Analyzing; K5-Evaluating

1. Theory Examination - Part I, II & III

(i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Practical Examination:

Knowledge Level	Section	Marks	Total
K3	Experiments Record Work	40	45
K4		5	
K5			

3. Mini Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report Viva voce	45	60
K4		15	
K5			

4. Project Viva Voce:

Knowledge Level	Section	Marks	Total
K3	Project Report Viva voce	120	160
K4		40	
K5			

PCS 5

QUESTION PAPER PATTERN for CIA and ESE

M.Sc Computer science (PG)

Theory

Max Marks: 75

Time: 3Hrs

Section A (10 x 1 = 10 marks)

Q.No. 1 to 10 : Multiple choice type alone with four distractors each.

Section B (5 x 5 = 25 marks)

Q.No. 11 to 15 : Either or / short notes type questions (one question ‘a’ or ‘b’ from each unit).

Section C (5 x 8 = 40 marks)

Q.No. 16 to 20 : Either or / essay type questions (one question ‘a’ or ‘b’ from each unit).

PCM01

**KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE - 641 029**

**MASTER OF COMMERCE - M.COM
CURRICULUM & SCHEME OF EXAMINATION UNDER CBCS
(Applicable to Students admitted from the Academic Year 2019-2020 onwards)**

Semester	Subject Code	Title of the Paper	Instruction Hours / Cycle	Exam. Marks			Duration of Exam.(hrs)	Credits
				CIA	ESE	Total		
I	18PCM101	C.P.1 Financial Management	6	25	75	100	3	5
	18PCM102	C.P.2 Global Business Environment	6	25	75	100	3	5
	19PCM103	C.P.3. Executive Communication	6	25	75	100	3	5
	19PCM104	C.P.4. Organizational Behaviour	6	25	75	100	3	5
	19PCM1N1	Non-Major Elective I	6	25	75	100	3	5
Total (i)			30	125	375	500	-	25
II	19PCM205	C.P.5. Advanced Corporate Accounting	6	25	75	100	3	5
	19PCM206	C.P.6.Security Analysis and Portfolio Management	6	25	75	100	3	5
	19PCM207	C.P.7 Management of Small Enterprises	6	25	75	100	3	5
	19PCM208	C.P.8. Industrial Relations and Labour Law	6	25	75	100	3	5
	19PCM2N2	Non-Major Elective-II	6	25	75	100	3	5
Total (ii)			30	125	375	500	-	25
III	18PCM309	C.P.9 Applied Cost Accounting	5	25	75	100	3	4
	18PCM310	C.P.10 Income Tax Law and Practice	5	25	75	100	3	4
	19PCM311	C.P.11 Cyber Crime and Law	5	25	75	100	3	4
	19PCM312	C.P.12 Business Research Methods	5	25	75	100	3	4
	C.Pr.1 Computer Application and Practicals		4	--	--	--	--	--
	19PCM3E1	Major Elective I	6	25	75	100	3	5
Total (iii)			30	125	375	500	-	21
IV	19PCM413	C.P.13 Accounting for Managers	4	25	75	100	3	3
	19PCM414	C.P.14 Customs Duty and Goods and Services Tax	4	25	75	100	3	3
	18PCM415	C.P.15 Marketing Research	3	25	75	100	3	2
	18PCM4CL	C.Pr.1Computer Application and Practicals	5	40	60	100	3	2
	19PCM4E2	Major Elective-II	6	25	75	100	3	5
	18PCM4Z1	Project Work and Viva - Voce	8	40	160*	200	3	4
	Total (iv)		30	80	520	700	-	19
	Total (i+ii+iii+iv)	-	555	1645	2200	-	90	

* Project Report 120 Marks, Viva Voce 40 Marks

PCM02

Note: CBCS – Choice Based Credit System ALC – Advanced Learners Course
CIA – Continuous Internal Assessment ESE – End Semester Examinations
JOC – Job Oriented Course

Major Elective Papers

1. Bank Management
2. Human Resource Management
3. Services Marketing
4. Consumer Behaviour
5. Insurance and Risk Management
6. International Marketing

Two Major Elective Papers are to be selected by the Students from 6 papers assigned to be elective papers in their III and IV Semesters.

Non - Major Elective Papers

1. Economic Policies and Business
2. Managerial Economics
3. Management of Financial Services
4. International Trade

Two Non-Major Elective papers are to be selected by the Students from 4 papers assigned to be Non-Major Elective papers in their I and II Semesters

TALLY TABLE:

Sl No.	SUBJECT	TOTAL MARKS
1	Core	1800
2	Non Major Elective 1 & 2	200
3	Major Elective 1 & 2	200
	TOTAL MARKS	2200

- ❖ 25% CIA is applicable to all subjects except JOC, ALC and SWAYAM, which are considered as extra credit courses. Theory and proportion of CIA and ESE for Practical is 40:60
- ❖ The students are advised to complete SWAYAM – MOOC before the completion of third semester and the course completed certificate should be submitted to the HoD. Two credits will be given to the candidates who have successfully completed.
- ❖ A field trip preferably relevant to the course should be undertaken every year.

PCM03

Components of Continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	(75+75=150 /10)	25
	CIA 2	75		
Assignment/ Seminar			5	
Attendance			5	
Practical	CIA	Practical	*25	40
	Observation Notebook		10	
	Attendance		5	
Project	Review		15	20
	Regularity		5	

* Program 1: 10 marks & Program 2 : 15 marks

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

K1- Remember ; **K2-** Understand; **K3-** Apply; **K4-** Analyze; **K5-** Evaluate

1. Theory Examination: Part I, II & III

(i) CIA I& II and ESE: 75 Marks

Knowledge level	Section	Marks	Description	Total
K1 Q1 to10	A (Answer all)	10 x 1=10	MCQ	75
K2 Q11 to 15	B (either or pattern)	5 x 5=25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8=40	Descriptive / detailed	

ii. ALC /JOC/PG Diploma: 100 marks (For ESE only)

Knowledge level	Section	Marks	Description	Total
K1 Q1 to10	A (Answer all)	10 x 1=10	MCQ	100
K2 Q11 to 15	B (either or pattern)	5 x 6=30	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 12=60	Descriptive / detailed	

2. Practical Examination: 100 marks (60:40) ESE (60 marks)

Knowledge Level	Section	Marks	Total
K3	Experiments Record Work	*50	60
K4			
K5		10	

* Program 1: 25 marks & Program 2: 25 marks

PCM04

3. Project Viva Voce: 200 marks (160:40)

ESE (160 marks)

Knowledge Level	Section	Marks	Total
K3	Project Report	120	160
K4			
K5	Viva Voce	40	

* Project work commences from III semester and submission of report and Viva-Voce Examination is conducted at the end of IV semester. The Internal (Faculty of the Department) and External Examiners will award marks for comprehensive Viva-Voce and Project Report jointly.

ADVANCED LEARNER COURSE UNDER SELF STUDY SCHEME (ALC)-OPTIONAL

Subject code	Title of the Paper	ESE Marks	Duration of Exam Hours	Credits
18PCM0D1	ALC-1 – Banking and Financial Services	100	3	2
18PCM0D2	ALC-2- Insurance Principles and Practice	100	3	2
18PCM0D3	ALC-3- Advertising Management	100	3	2

JOB ORIENTED COURSES (JOC) -OPTIONAL

Subject code	Title of the Paper	ESE Marks	Duration of Exam Hours	Credits
18PCM0J1	JOC-1 Customer Relationship Management	100	3	2
18PCM0J2	JOC -2 Tally 9.0 Practical	100	3	2
18PCM0J3	JOC -3 Share Trading Operations	100	3	2

KONGUNADU ARTS AND SCIENCE COLLEGE

COIMBATORE-641 029

M.A. TAMIL

Curriculum, Scheme of Examination and Syllabi for PG M.A. Tamil Programmes under CBCS

(Applicable to the PG students Admitted during 2019-2020)

Semester	Study Components / Course Title	Instruction hours/ cycle	CIA	ESE	TOTAL	Duration of Exam(Hrs)	Credit
I	CORE – 1 இக்கால இலக்கியம்	6	25	75	100	3	5
	CORE – 2 இலக்கணம் தொல் – எழுத்து	6	25	75	100	3	5
	CORE – 3 கொங்குநாட்டியல்	6	25	75	100	3	5
	CORE – 4 பக்தி இலக்கியம்	6	25	75	100	3	5
	ELEC.I விருப்பப் பாடம் I	6	25	75	100	3	3
II	CORE – 5 அற இலக்கியம்	6	25	75	100	3	5
	CORE – 6 இலக்கணம் தொல் – சொல்	6	25	75	100	3	5
	CORE – 7 சிறுநிலக்கியம்	6	25	75	100	3	4
	CORE – 8 சிறப்பு இலக்கியம் – சிலப்பதிகாரம்	6	25	75	100	3	4
	ELEC.II விருப்பப் பாடம் II	6	25	75	100	3	3
III	CORE – 9 காப்பியங்கள்	6	25	75	100	3	4
	CORE – 10 இலக்கணம் தொல் – பொருள் – I	6	25	75	100	3	5
	CORE – 11 இலக்கியத் திறனாய்வியல்	6	25	75	100	3	4
	CORE – 12 நாட்டுப்புறவியல்	6	25	75	100	3	4
	ELEC.III விருப்பப் பாடம் III	6	25	75	100	3	3
IV	CORE – 13 சங்க இலக்கியம்	5	25	75	100	3	5
	CORE – 14 இலக்கணம் தொல் – பொருள் – II	5	25	75	100	3	5
	CORE – 15 ஆய்வியல் அறிமுகம்	5	25	75	100	3	4
	CORE – 16 தமிழ் இலக்கண வரலாறு	5	25	75	100	3	4
	Project Work ஆய்வேடு (Project & Viva-voce)	6	40	160	200	3	5
	ELEC.IV விருப்பப் பாடம் IV	4	25	75	100	3	3
	Total				2200		90

TALLY TABLE

SUBJECT	No. of Subjects	Total Marks	Credits
Core – Theory/Project	17	1800	78
Major Elective Papers	4	400	12
	21	2200	90

- ❖ 25% CIA is applicable to all Subjects except Project Work
- ❖ The students are advised to complete SWAYAM – MOOC before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two credits will be given to the candidates who have successfully completed.

KONGUNADU ARTS AND SCIENCE COLLEGE

பாடத்திட்டம் – முதுகலை தமிழ்

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

(புள்ளியின் படிநிலை ஆய்வு அடிப்படையிலான மதிப்பீட்டு முறை)

K1 - Remember (நினைவுகூர்தல் அல்லது அறிதல்)

K2 - Understanding (புரிதல்)

K3 - Apply (பயன்பாடு)

K4 - Analyze (பகுத்தல்)

K5 - Evaluate (மதிப்பீடு)

1. Theory Examination

CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75
K2 Q11 to 15	B (Either or pattern)	5 x 5 = 25	Short Answers	
K3 & K4 Q16 to 20	C (Either or pattern)	5 x 8 = 40	Descriptive / Detailed	

2. Project Viva Voce

Knowledge Level	Section	Marks	Total
K3	Project Report	160	200
K4			
K5	Viva voce	40	

Components of Continuous Internal Assessment

Components			Marks	Total
Theory	CIA 1	75	(75+75 = 150/10)	25
	CIA 2	75	15	
Assignment/ Work Book			5	
Attendance			5	

Elective Papers

1. சைவ சித்தாந்தம் I, II
2. ஒப்பிலக்கிய அறிமுகம் I, II
3. இதழியலும் மக்கள் தகவல் தொடர்பியலும் I, II

M.A. Tamil

Question Paper Pattern (Under OBE Pattern)

(Applicable to students admitted from the academic year 2019-2020 and onwards)

Maximum Marks – 75 marks

Time – 3hrs

For all Core Papers, Electives the following pattern will be followed:

SECTION – A (10X1=10 Marks)

Questions 1-10

Multiple Choice question with four alternatives to be taken from all five Units.

Each Unit will have 2 multiple choice questions.

All Questions carry equal marks.

SECTION – B (5X5=25 Marks)

Questions 11-15

Short Notes in about 300 words each of either/or type should be taken from all the five Units.

All Questions carry equal marks.

SECTION – C (5X8=40 Marks)

Questions 16-20

Essay type Questions in about 600 words of either/or type should be taken from all the five Units.