

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS) PUTHANAMPATTI-621 007**

**B.A ECONOMICS (UG) COURSE STRUCTURE UNDER CBCS PATTERN**

Semester	Course Code	Title of the Course	Hrs/Week	Credit	Internal	External	Total
I	19T101	LC-I- Tamil	6	3	25	75	100
	19H101	ELC –I- English	6	3	25	75	100
	19E101	CC-I-History of Economic Thought	5	4	25	75	100
	19E102	CC-II-Micro Economics -I	6	4	25	75	100
	19E103A	AC-I-Economic Statistics	5	4	25	75	100
	19VED	Value Education	2	2	25	75	100
			30	20			
II	19T202	LC-II-- Tamil	6	3	25	75	100
	19H202	ELC –II- English	6	3	25	75	100
	19E204	CC-III- Micro Economics-II	5	3	25	75	100
	19E205A	AC-II- Statistical Methods	5	5	25	75	100
	19E206A	AC-III-Statistics :Pertaining to Indian Context	4	4	25	75	100
	19XE21	SKBC-I- Human Resource Management	2	2	25	25	100
	19EVS	EVS -Environmental Studies	2	2	25	75	100
			30	22			
III	19T303	LC-III-Tamil	6	3	25	75	100
	19H303	ELC –III-English	6	3	25	75	100
	19E307	CC-IV-Indian Economic Development	6	5	25	75	100
	19E308	CC-V -Macro Economics-I	5	4	25	75	100
	19E309A	AC-IV-Marketing	5	4	25	75	100
	19XE32	SKBC-II-Human Resource Development	2	2	25	75	100
	19GS	Gender Studies	-	1	25	75	100
			30	22			
IV	19T404	LC-IV-Tamil	6	3	25	75	100
	19H404	ELC –IV-English	6	3	25	75	100
	19E410	CC-VI-Macro Economics-II	5	4	25	75	100
	19E411	CC-VII-Monetary Economics	5	3	25	75	100
	19E411A	AC-V-International Business Environment	3	4	25	75	100
	19E412A	AC-VI-Principles of Management	3	3	25	75	100
	19SSC	Soft Skills	-	2	25	75	100
	19E4N	NMEC-I- Economics of Infrastructure	2	2	25	75	100

			30	24			
V	19E513	CC-VIII- Fiscal Economics	6	4	25	75	100
	19E514	CC-IX-Capital Market in India	6	5	25	75	100
	19E515	CC-X-Tamil Nadu Economy	6	4	25	75	100
	19E516	CC-XI-Tourism Management	5	5	25	75	100
	19E517	EC-I-Principles of Accountancy	5	5	25	75	100
	19E518	NMEC-II- Analysis of Indian Economy	2	2	25	75	100
			30	25			
VI	19E619	CC-XII- International Economics	5	4	25	75	100
	19E620	CC- XIII- Agricultural Economics	5	4	25	75	100
	19E621	CC-XIV- Rural Industrialisation in India	5	4	25	75	100
	19E622	CC-XV- Computer Application in Economics	5	4	25	75	100
	19E623	EC-II-Entrepreneurial Development	5	5	25	75	100
	19E624	EC-III-Personnel Management	5	5	25	75	100
	19EA	Extension Activities	-	1	-	-	100
			30	27			
		Total	<b>180</b>	<b>140</b>			4100
	19EC	Comprehensive Course	-	4	-	-	100
		SKBC-III		2	-	-	100
				146			4300

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**  
**M.A.Economics Programme - Course Structure**  
**Under CBCS (Choice Based Credit System)**  
**(For the candidates admitted from the academic year 2019 – 2020 onwards)**

Semester	Course Code (s)	Course Title	Hrs/ week	Credits	Exam Hrs.	Marks		Total
						Int	Ext	
I	18PEC101	CC –I – Advanced Micro Economic Theory	7	5	3	25	75	100
	18PEC102	CC –II –Advanced Macro Economic Theory	6	5	3	25	75	100
	18PEC103	CC –III- Issues in Indian Economy	6	5	3	25	75	100
	18PEC104	CC –IV – Developmental Economics	6	5	3	25	75	100
	18PEC105	EC –I – Rural Development	5	4	3	40	60	100
			<b>30</b>	<b>24</b>				
II	18PEC206	CC-V- Statistical Methods of Economic Analysis	7	5	3	25	75	100
	18PEC207	CC-VI- Industrial Economics	6	5	3	25	75	100
	18PEC208	CC-VII- Economic Theory of India	6	5	3	25	75	100
	18PEC209	CC-VIII – International Economics	6	5	3	25	75	100
	18PEC210	EC –II- Economics for Competitive Examinations	5	4	3	25	75	100
			<b>30</b>	<b>24</b>				
III	18PEC311	CC-IX – Basic Econometrics	7	5	3	25	75	100
	18PEC312	CC-X –Research Methodology	7	5	3	25	75	100
	18PEC313	CC-XI –Monetary Economics	6	5	3	25	75	100
	18PEC314	EC –III- Computer Applications in Economics	5	4	3	25	75	100
	18PEC315	OEC –I- Advertisement Management	5	4	3	40	60	100
			<b>30</b>	<b>23</b>				
IV	18PEC416	CC –XII- Public Finance	7	5	3	25	75	100
	18PEC417	CC –XIII – Agricultural Economics	6	5	3	25	75	100
	18PEC418	EC –IV – Environmental Economics	5	4	3	25	75	100
	18PEC419	EC –V- Principles of Managerial Economics	5	4	3	25	75	100
	18PEC420 P	CC –XIV – Project Work	7	6	-	-	-	100
			<b>30</b>	<b>24</b>				<b>100</b>
			<b>Total</b>	<b>120</b>	<b>95</b>	<b>-</b>		

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS) UG Programme (English)**  
**Course Structure of CBCS For the candidates admitted from 2019 – 2020 onwards**

Sem	Course Code	Title of the course	Hrs. per Week	Credits	CIA	EXT.	Total
I	19T101	LC-I- Tamil	6	3	25	75	100
	19H101	ELC-II- English	6	3	25	75	100
	19L101	CC- I- Prose	6	4	25	75	100
	19L102	CC-II- Fiction	5	4	25	75	100
	19L103A	AC-I- Social History of England	5	4	25	75	100
	19VED	VE- Value Education	2	2	25	75	100
II	19T202	LC-II- Tamil	6	3	25	75	100
	19H202	ELC-II- English	6	3	25	75	100
	19L204	CC-III- Poetry-I	5	4	25	75	100
	19L205A	AC- II- History of English Literature	5	4	25	75	100
	19L206A	AC-III-Literary Forms & Terms	4	4	25	75	100
	19XL21	SKBC-I- Remedial English	2	2	25	75	100
	19EVS	EVS- Environmental Studies	2	2	25	75	100
III	19T303	LC-III- Tamil	6	3	25	75	100
	19H303	ELC-III- English	6	3	25	75	100
	19L307	CC-IV- Poetry-II	6	5	25	75	100
	19L308	CC-V – Drama- I	5	4	25	75	100
	19L309A	AC-IV- History of English Literature- II	5	4	25	75	100
	19XL32	SKBC-II- Photo Journalism	2	2	25	75	100
	19GS	Gender Studies [Self Study]	-	1	25	75	100
IV	19T404	LC-IV- Tamil	6	3	25	75	100
	19H404	ELC-IV- English	6	3	25	75	100
	19L410	CC-VI – Drama-I I	6	5	25	75	100
	19L411A	AC-V- History of English Language	5	4	25	75	100
	19L412A	AC-VI- Principles of Literary Criticism	5	4	25	75	100
	194N	NMEC – I- English for Business Communication	2	2	25	75	100
	19SSC	Soft Skills	0	2	25	75	100
V	19L513	CC-VII- Shakespeare	6	5	25	75	100
	19L514	CC-VIII- Indian Writing in English	6	5	25	75	100
	19L515	CC-IX- Phonetics	6	5	25	75	100
	19L516	CC-X- Feminist Writing in English	5	5	25	75	100
	19L517	EC-I- Translation Theory and Practice	5	5	25	75	100
	19L5N	NMEC- II - Children’s Literature	2	2	25	75	100
VI	19L618	CC-XI- New Literature in English	6	5	25	75	100
	19L619	CC-XII- American Literature	6	5	25	75	100
	19L620	CC-XIII- English Language Teaching	6	5	25	75	100
	19L621	EC – II – Comparative Literature	6	5	25	75	100
	19L622	EC-III- Journalism	6	5	25	75	100
	19EA	External Activities	-	1	-	-	-
			180	140	950	2850	3800
	19LC	Comprehensive Course	-	4	-	-	100
SKBC III- Personality Development			-	2	-	100	100

\*EC - Elective Courses:

Sem	Elective Code	Code	Course
V	EC I		Translation Theory and Practice
	EC II		Comparative Literature
VI	EC III		Journalism

**M.A. ENGLISH LITERATURE COURSE PATTERN (FROM 2019-2020)**

Sem.	Course	Course Title	Hrs / Week	Credit	MAX.MARKS		
					Int.	Ext.	Total
I	19PL101	CC -I -British Literature I (From Chaucer to the Elizabethan Age 1340-1660)	6	5	25	75	100
	19PL102	CC-II -British Literature II (Neo- Classical Age 1660-1798)	6	5	25	75	100
	19PL103	CCIII- Indian Writing In English	6	4	25	75	100
	19PL104	CC IV- American Literature	6	4	25	75	100
	19PL105	CC V- Advanced Skills for Spoken Communication	6	4	25	75	100
<b>TOTAL</b>			<b>30</b>	<b>21</b>	<b>125</b>	<b>375</b>	<b>500</b>
II	19PL206	CC –VI- British Literature III (From Wordsworth to Tennyson 1798-1887)	6	5	25	75	100
	19PL207	CC –VII-British Literature IV(from 1887 onwards)	6	5	25	75	100
	19PL208	CC –VIII- Shakespeare	6	5	25	75	100
	19PL209	CC –IX - Non Fictional Prose	6	4	25	75	100
	19PL210	CC –X -Applied Linguistics	6	4	25	75	100
<b>TOTAL</b>			<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>	<b>500</b>
III	19PL311	CC XI Literary Criticism I	6	5	25	75	100
	19PL312	CC XII Research Methodology	6	5	25	75	100
	19PL313	Elective I Canadian Literature	6	4	25	75	100
	19PL314	Elective II Post Colonial Literature	6	4	25	75	100
	19PL315	OEC - Soft Skills For Advanced Learners	6	4	25	75	100
<b>TOTAL</b>			<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>	<b>500</b>
IV	19PL416	CC XIII Literary Criticism II	6	5	25	75	100
	19PL417	CC XIV Diaspora Literature	6	5	25	75	100
	19PL418	CCXV PROJECT WORK	6	5	25	75	100
	19PL419	Elective III Feminist Writing in English	6	4	25	75	100
	19PL420	Elective IV Film Reviews and Presentations	6	4	25	75	100
	19PL421P	Project Work					
<b>TOTAL</b>			<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>	<b>500</b>
<b>GRAND TOTAL</b>			<b>120</b>	<b>90</b>	<b>500</b>	<b>1500</b>	<b>2000</b>

**DEPARTMENT OF TAMIL**  
**B.A., TAMIL LITERATURE - COURSE STRUCTURE** under CBCS  
*(for candidates admitted from 2019 – 2020 onwards)*

Sem	Part	Course	Title Of The Course(S)	Ins. Hrs Per Week	Cr	Exam Hrs	Int	Ext	Total
I	I	19T101	LC – I - தமிழ்	6	3	3	25	75	100
	II	19H101	ELC – I - ஆங்கிலம்	6	3	3	25	75	100
	III	19TA101	CC – I இக்கால இலக்கியம்	5	4	3	25	75	100
		19TA102	CC – II நன்னூல் – எழுத்ததிகாரம்	6	4	3	25	75	100
		19TA103A	AC – I தமிழக வரலாறும் பண்பாடும்	5	4	3	25	75	100
	IV	19VED	மதிப்புக் கல்வி	2	2	3	--	100	100
II	I	19T202	LC – II 1 தமிழ்	6	3	3	25	75	100
	II	19H202	ELC – II ஆங்கிலம்	6	3	3	25	75	100
	III	19TA204	CC – III நன்னூல் - சொல்லதிகாரம்	5	4	3	25	75	100
		19TA205A	AC – II ஆட்சித் தமிழ்	5	4	3	25	75	100
		19TA206A	AC – III நாடகவியல்	4	4	3	25	75	100
	IV	19EVS	EVS -Environmental Studies	2	2	3	--	100	100
		19XTA21	SKBC – I -படைப்பிலக்கியம்	2	2	3	--	100	100
III	I	19T303	LC – III - தமிழ்	6	3	3	25	75	100
	II	19H303	ELC – III ஆங்கிலம்	6	3	3	25	75	100
	III	19TA307	CC – IV -சிற்றிலக்கியம்	6	5	3	25	75	100
		19TA308	CC – V -புறப்பொருள்	5	4	3	25	75	100
		19TA309A	AC – IV கல்வெட்டியல்	5	4	3	25	75	100
	IV	19XTA32	SKBC- II -திரைப்படக் கலை	2	2		--	100	100
		19GS	Gender Studies	0	1		--	100	100
	<b>TOTAL</b>				<b>90</b>	<b>64</b>			

Em	Part	Course	Title Of The Course(S)	Ins. Hrs Per Week	Cr	Exam Hrs	Int	Ext	Total
IV	I	19T404	LC –IV -தமிழ்	6	3	3	25	75	100
	II	19H404	ELC –IV-ஆங்கிலம்	6	3	3	25	75	100
	III	19TA410	CC –VI -சமய இலக்கியம்	6	5	3	25	75	100
		19TA411A	AC – V -இதழியல்	5	4	3	25	75	100
		19TA412A	AC – VI -நாட்டுப்புறவியல்	5	4	3	25	75	100
	IV	19SSC	SSC -ஆளுமைத் திறன்	0	2	3	--	100	100
19TA5N		NMEC I - மேடைத்தமிழ்	2	2	3	--	100	100	
V		19TA513	CC – VII அற இலக்கியம்	6	5	3	25	75	100
		19TA514	CC- VIII ஒப்பிலக்கியம்	6	5	3	25	75	100
		19TA515	CC – IX நம்பியகப்பொருள்	6	5	3	25	75	100
		19TA516	CC – X யாப்பருங்கலக்காரிகை	5	5	3	25	75	100
		19TA517	EC – I – மூலிகை மருத்துவம் பணித்தேர்வுத் தமிழ்	5	5	3	25	75	100
	IV	19TA5N	NMEC II ஊடகவியல்	2	2	3	--	100	100
VI	I	19TA618	CC – XI காப்பியங்கள்	6	5	3	25	75	100
	II	19TA619	CC – XII தண்டியலங்காரம்	6	5	3	25	75	100
	III	19TA620	CC – XIII -சங்க இலக்கியம்	6	5	3	25	75	100
		19TA621	EC – II திருக்குறள்	6	4	3	25	75	100
		19TA622	EC – III -சுற்றுலாவியல் கணினித் தமிழ் இணையப் பயன்பாடும்	6	5	3	25	75	100
	IV	19TAC	Comprehensive Course	0	4			100	100
		19EA	Extension Activities	0	1				
		SKBC - III	Self Stud	0	2				100
					<b>180</b>	<b>146</b>			



# NEHRU MEMORIAL COLLEGE

(Autonomous, Accredited with 'A' Grade by NAAC & Affiliated to Bharathidasan University, Tiruchirappalli)  
Puthanampatti-621007, Tiruchirappalli- District

**M.A. Tamil - Course Structure and Syllabus under CBCS**  
(For the candidate admitted from the academic year 2019-2020 onwards)

Se m.	Course Code	Course Title	Ins. Hrs/ Per Week	Cre dit	Exam. Hrs.	Marks		Total
						Int.	Ext.	
I	19PTA101	CC -I -இக்கால இலக்கியம் - 1	6	4	3	25	75	100
	19PTA102	CC -II- இக்கால இலக்கியம் -2	6	4	3	25	75	100
	19PTA103	CC -III- சிற்றிலக்கியம்	6	4	3	25	75	100
	19PTA104	CC -IV - சமய இலக்கியம்	6	4	3	25	75	100
	19PTA105	CC -V- தொல்காப்பியம்- எழுத்ததிகார- இளம்பூரண ம்	6	4	3	25	75	100
	<b>Total</b>			<b>30</b>	<b>20</b>			
II	19PTA206	CC -VI-காப்பிய இலக்கியம்	6	4	3	25	75	100
	19PTA207	CC -VII-அற இலக்கியம்	6	4	3	25	75	100
	19PTA208	CC -VIII-சங்க இலக்கியம் -1 - (எட்டுத்தொகை)	6	4	3	25	75	100
	19PTA209	CC -IX- தொல்காப்பியம் சொல்லதிகாரம் சேனாவரையம்	6	4	3	25	75	100
	19PTA210	*OEC -I- பெண்ணியம்	6	4	3	25	75	100
		OEC -II- தமிழகக் கலைகளும் பண்பாடும்						
<b>Total</b>			<b>30</b>	<b>20</b>				<b>500</b>



III	19PTA311	CC -X - சங்க இலக்கியம் 2 (பத்துப்பாட்டு)	6	5	3	25	75	100
	19PTA312	CC -XI- ஒப்பீட்டு நோக்கில் உலகச் செம்மொழிகள்	6	5	3	25	75	100
	19PTA313	CC -XII-தொல்காப்பியம் பொருளதிகாரம் முன் 5 இயல்கள் நச்சினார்க்கினியர் உரை	6	5	3	25	75	100
	19PTA314	*EC -I - மொழி பெயர்ப்பியல்	6	5	3	25	75	100
		EC-I- பொது மொழியியல்						
	19PTA315	*EC -II - பெரியாரியல் ஐ -ஐ- இந்தியத் தத்துவ இயல்	6	5	3	25	75	100
<b>Total</b>			<b>30</b>	<b>25</b>				<b>500</b>
IV	19PTA416	CC -XIII- இலக்கியக் கொள்கைகளும் திறனாய்வும்	5	5	3	25	75	100
	19PTA417	CC -XIV- தொல்காப்பியம் பொருளதிகாரம் - பின் 4 இயல்கள்- பேராசிரியர் உரை	5	5	3	25	75	100
	19PTA418	*EC -III- ஊடகவியல்	6	5	3	25	75	100
		EC-III-தமிழ் அச்சுக் கலை						
	19PTA419	*EC -IV - உலக இலக்கியங்கள்	6	5	3	25	75	100
		EC -IV - இந்திய இலக்கியங்கள்						
	19PTA420P	Project Work	8	5				100
	<b>Total</b>			<b>30</b>	<b>25</b>			
<b>Total</b>			<b>120</b>	<b>90</b>				<b>2000</b>

\* ஏதேனும் ஒரு தாள் மட்டும்

	Courses	Total Number of Courses	Total Number of Credit	Total Marks
I	Core Courses	14	61	1400
II	Open Elective Courses	1	4	100
II	Elective Courses	4	20	400
III	Project	1	5	100
	Total	20	90	2000

**UG Programme (Commerce) – Curriculum Framework**  
(For the Candidates admitted from 2019 – 2020 onwards)

Sem.	Part	Code	Title of the Course	Hrs/ Wk	Credits	Marks		
						Int.	Ext.	Ext.
<b>I</b>	I	19T101	LC I - Tamil I	6	3	25	75	100
	II	19H101	ELC II - English I	6	3	25	75	100
	III	19C101	CC I –Business Accounting	6	4	25	75	100
		19C102	CC II –Business Environment and Ethics	5	4	25	75	100
		19C103A	AC I – Business Economics	5	4	25	75	100
	IV	19VED	Value Education	2	2	25	75	100
	<b>Total</b>			<b>6</b>	<b>30</b>	<b>20</b>	<b>150</b>	<b>450</b>
<b>II</b>	I	19T202	LC II – Tamil II	6	3	25	75	100
	II	19H202	ELC II - English II	6	3	25	75	100
	III	19C204	CC III – Statistical Methods	5	4	25	75	100
		19C205A	AC II – Modern Banking Practices	5	4	25	75	100
		19C206A	AC III – Principles of Marketing	4	4	25	75	100
	IV	19XC21	SKBC I – Commercial Correspondence	2	2	25	75	100
		19EVS	Environmental Studies	2	2	25	75	100
<b>Total</b>			<b>7</b>	<b>30</b>	<b>22</b>	<b>175</b>	<b>525</b>	<b>700</b>
<b>III</b>	I	19T303	LC III - Tamil III	6	3	25	75	100
	II	19H303	ELC III - English III	6	3	25	75	100
	III	19C307	CC-IV – Computer Application in Business	6	4	40	60	100
		19C308	CC V – Auditing Principles and Practice	5	4	25	75	100
		19C309A	AC IV – Commercial Law	5	4	25	75	100
	IV	19XC32	SKBC II – Advertising and Salesmanship	2	2	25	75	100
		19GS	GS - Gender Studies	-	1	25	75	100
<b>Total</b>			<b>7</b>	<b>30</b>	<b>21</b>	<b>165</b>	<b>535</b>	<b>700</b>

IV	I	19T404	LC IV - Tamil IV	6	3	25	75	100
	II	19H404	ELC IV - English IV	6	3	25	75	100
	III	19C410	CC VI – Financial Accounting	6	4	25	75	100
		19C411	CC VII –Introduction of GST	4	3	25	75	100
		19C412A	AC V –Company Law	3	4	25	75	100
		19C413A	AC VI – Business Management	3	4	25	75	100
	IV	19C4N	NMEC I – Fundamentals of Accounting	2	2	25	75	100
		19SSC	SSC - Soft Skill Course	-	2	-	100	100
	<b>Total</b>		<b>8</b>	<b>30</b>	<b>25</b>	<b>175</b>	<b>625</b>	<b>800</b>
V	III	19C514	CCL VIII – Computerized Accounting	6	5	40	60	100
		19C515	CC IX – Cost Accounting	5	4	25	75	100
		19C516	CC X – Income Tax Law and Practice	6	4	25	75	100
		19C517	CC XI – Corporate Accounting	6	5	25	75	100
		19C518a	EC –I – Principle and Practice of Insurance	5	5	25	75	100
		19C518b	EC – I - Services Marketing					
	IV	19C5N	NMEC II – General Commercial Knowledge	2	2	25	75	100
	Extra Credit		EXCL 1 – R Programme	2	2	-	100	100
		<b>Total</b>		<b>6+1</b>	<b>30+2</b>	<b>25+2</b>	<b>165</b>	<b>535</b>
VI	III	19C619	CC XII – Management Accounting	5	4	25	75	100
		19C620	CC XIII –Financial Management	5	4	25	75	100
		19C621	CC XIV – Entrepreneurial Development	5	4	25	75	100
		19C622	CC XV – Industrial Relations and Regulations	5	4	25	75	100
		19C623a	EC II- Financial Markets and Services	5	5	25	75	100
		19C623b	EC –II-International Trade and Export Management					
		19C624a	EC III- Fundamentals of Capital Market	5	5	25	75	100
		19C624b	EC –III-Human Resource Management					
	IV		Extension Activities	-	1	-	-	-
	Extra Credit		EXC 2 – Group Project	-	2	50	50	100
	<b>Total</b>		<b>7+1</b>	<b>30</b>	<b>27+2</b>	<b>150+50</b>	<b>450+100</b>	<b>600+100</b>
<b>TOTAL</b>			<b>41+2</b>	<b>180+4</b>	<b>140+4</b>	<b>980+50</b>	<b>3020+150</b>	<b>4000+200</b>

<b>Sem</b>	<b>Elective Code</b>	<b>Course</b>
V	EC I	Services Marketing Principles and Practice of Insurance
VI	EC II	Financial Markets and Services International Trade and Export Management
	EC III	Fundamentals of Capital Markets Human Resource Management

**M.Com. Course structure under CBCS**  
(For the candidate admitted from the year 2019-2020)

Semester	Course code	Title of the Course(s)	Hrs/ week	credit	Marks		Total
					Int	Ext	
<b>I</b>	19PC101	CC-I-Managerial Economics	6	5	25	75	100
	19PC102	CC-II Business Environment	6	5	25	75	100
	19PC103	CC-III- Corporate Laws	6	4	25	75	100
	19PC104	CC-IV- Advanced cost and Management Accounting	6	5	25	75	100
	19PC105A	EC-I- Information Technology for management	6	4	25	75	100
	19PC105B	EC-I -Retail Marketing					
			<b>TOTAL</b>	<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>
<b>II</b>	19PC206	CC-V -Advanced Financial Management	6	5	25	75	100
	19PC207	CC-VI-Computational Indirect Tax and GST Lab	6	4	40	60	100
	19PC208	CC-VII-Banking and Financial Institutions	6	5	25	75	100
	19PC209	CC-VIII-Security Analysis and portfolio management	6	5	25	75	100
	19PC210b	OEC -Organisational Behaviour	6	4	25	75	100
	19PC210A	OEC- Accounting for managerial decisions					
			<b>TOTAL</b>	<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>
<b>III</b>	19PC311	CC-IX- Advanced Corporate Accounting	6	5	25	75	100
	19PC312	CC-X- Research Methodology	6	5	25	75	100
	19PC313A	EC-II -Advanced Business Statistics and Practical Lab	6	4	40	60	100
	19PC313B	EC-II -Advertising and Sales Promotion	6	4	25	75	100
	19PC314	CC-XI International Finance and Institutions	6	4	25	75	100
	19PC315B	EC-III- Corporate Reporting Practices	6	4	25	75	100
	19PC315A	EC -III- Consumer Behaviour					
		<b>TOTAL</b>	<b>30</b>	<b>22</b>	<b>125</b>	<b>375</b>	<b>500</b>
<b>IV</b>	19PC416	CC-XII- Agricultural and Rural Marketing	6	4	25	75	100
	19PC417	CC-XIII- Corporate Ethics	6	4	25	75	100
	19PC418	CC-XIV- Human Resources Management	6	5	25	75	100
	19PC419A	EC-IV -E- commerce Lab	6	4	25	75	100
	19PC419B	EC -IV - Training and development					
	19PC420P	CC-XV -Project work	6	5	25	75	100
		<b>TOTAL</b>	<b>30</b>	<b>22</b>	<b>125</b>	<b>375</b>	<b>500</b>
		<b>GRAND TOTAL</b>	<b>120</b>	<b>90</b>	<b>800</b>	<b>1200</b>	<b>2000</b>

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**  
**PUTHANAMPATTI – 621 007**  
**B.Com (COMPUTER APPLICATIONS) PROGRAMME**  
**(COURSE STRUCTURE UNDER CBCS for the year 2019-2020 Onwards)**

SEM	SUB CODE	TITLE OF COURSE	INS. HOURS	CREDITS	CIA	EXT	TOT
I	19T101	LC-I-Tamil	6	3	25	75	100
	19H101	ELC-I-English	6	3	25	75	100
	19CA101	CC-I-Introduction to Accountancy	6	5	25	75	100
	19CA102	CC-II – Marketing	5	5	25	75	100
	19CA103A	AC-I- Fundamentals of computer Applications	5	3	25	75	100
	19VED	Value Education	2	2	25	75	100
		TOTAL	30	21	-	-	600
II	19T202	LC-II-Tamil	6	3	25	75	100
	19H202	ELC-II-English	6	3	25	75	100
	19CA204	CC-III- Business Tools for Decision Making	5	3	25	75	100
	19CA205A	AC-II- Data Base Management Systems (Theory – I)	5	5	25	75	100
	19CA206L	AC-III- RDBMS Lab	4	3	40	60	100
	19XCA21	SKBC-I-Office Management	2	2	25	75	100
	19EVS	EVS – Environmental Studies	2	2	25	75	100
	TOTAL	30	21	-	-	700	
III	19T303	LC-III-Tamil	6	3	25	75	100
	19H303	ELC-III English	6	3	25	75	100
	19CA307	CC-IV- Business Accounting	6	5	25	75	100
	19CA308	CC-V- Business Communication	5	5	25	75	100
	19CA309L	AC-IV- PC Package (Practical)	4	3	40	60	100
	19XCA32	SKBC-II- Stock Exchange Practices	2	2	25	75	100
	19GS	Gender Studies	--	1	-	100	100
	TOTAL	29	22	-	-	700	
IV	19T404	LC-IV Tamil	6	3	25	75	100
	19H404	ELC-IV English	6	3	25	75	100
	19CA410	CC-VI- Cost Accounting	5	5	25	75	100
	19CA411	CC-VII-Business Management	5	4	25	75	100
	19CA412A	AC-V- Web Programming	4	4	25	75	100
	19CA413L	AC-VI- Web Development Lab	3	2	40	60	100

	19CA4N	NMEC1-Principes of Banking	2	2	25	75	100
	19SSC	SSC-Soft Skills	---	2	-	100	100
		TOTAL	31	25	-	-	800

V	19CA513	CC-VIII- Corporate Accounting	6	5	25	75	100	
	19CA514	CC-IX-Entrepreneurial Development	6	5	25	75	100	
	19CA515L	CC-X-Fundamentals of Computerized Accounting (practical)	6	5	40	60	100	
	19CA516	CC-XI- Python Programming	5	4	25	75	100	
	19CA517A	EC-I-Business Law	5	4	25	75	100	
	19CA517B	EC-I – Auditing						
	19CA5N	NMEC II– Principles of Human Resource Management	2	2	25	75	100	
		TOTAL	30	25	-	-	600	
VI	19CA618	CC-XII- Management Accounting	5	4	25	75	100	
	19CA619	CC-XIII- Income Tax Law and Practice	5	5	25	75	100	
	19CA620L	CC-XIV- Advanced Computerized Accounting (Practical)	5	4	40	60	100	
	19CA621	CC-XV- Banking Theory Law and Practice	5	4	25	75	100	
	19CA622A	EC-II-E-Commerce	5	4	25	75	100	
	19CA622B	EC –II- Management Information System						
	19CA623AL	EC-III-Commerce Practical	5	4	40	60	100	
	19CA623B	EC –III-Human Resource Management	5	4	25	75	100	
	19EA	EA- Extension Activities	-	1	-	-	-	
		TOTAL	30	26	--	-	600	
		TOTAL	180	140			4000	
		19CAC	Comprehensive Course	--	4	--	--	100
		19XCA33	SKBC- III (Self Study)	--	2	--	--	100
	<b>GRAND TOTAL</b>		<b>180</b>	<b>146</b>	<b>--</b>	<b>--</b>	<b>4200</b>	

# UG PROGRAMME - BBA

(for the candidates admitted from the Academic year 2019 – 2020 onwards)

	Sem		Title of the Course	Ins. Hrs	Credits	CIA	EXT	Total	
19T101	I	I	LC-1- Tamil	6	3	25	75	100	
19H101		II	ELC-1- English	6	3	25	75	100	
19B101		III	CC-I-Principles of Accounting		6	5	25	75	100
19B102			CC-II- Principles of Management		5	4	25	75	100
19B103A		AC-I- Managerial Economics		5	4	25	75	100	
19VED		IV	Value Education		2	2	25	75	100
<b>Total Hours and Credits (Semester – I)</b>				<b>30</b>	<b>21</b>	<b>150</b>	<b>450</b>	<b>600</b>	
19T202	II	I	LC-II- Tamil	6	3	25	75	100	
19H202		II	ELC-II-English	6	3	25	75	100	
19B204		III	CC-III- Marketing Management		5	4	25	75	100
19B205A			AC-II- Business Mathematics and Statistics		5	4	25	75	100
19B206A		AC-III- Business Environment		4	3	25	75	100	
19XB21a		IV	SKBC-I- Banking Theory Law and Practice		2	2	25	75	100
19XB21b			SKBC- I – E-Commerce						
19EVS			Environmental Studies		2	2	25	75	100
<b>Total Hours and Credits (Semester – II)</b>				<b>30</b>	<b>21</b>	<b>175</b>	<b>525</b>	<b>700</b>	
19T303	III	I	LC-III- Tamil	6	3	25	75	100	
19H303		II	ELC-III- English	6	3	25	75	100	
19B307		III	CC-IV-Business Communication		5	5	25	75	100
19B308			CC-V- Cost Accounting		6	5	25	75	100
19B309A			AC-IV- Business Legislation		5	4	25	75	100
19XB32a		IV	SKBC-II- Personality Development						
19XB32b			SKBX –II -Soft Skills for Managers		2	2	25	75	100
19GS		Gender Studies		0	1	25	75	100	
<b>Total Hours and Credits (Semester – III)</b>				<b>30</b>	<b>23</b>	<b>175</b>	<b>525</b>	<b>700</b>	
19T404	IV	I	LC-IV- Tamil	6	3	25	75	100	
19H404		II	ELC-IV- English	6	3	25	75	100	
19B410		III	CC-VI- Computer Application in Business		5	3	25	75	100
19B411			CC-VII- Retail Management		4	4	25	75	100
19B412A			AC-V- Operation Research		3	2	25	75	100
19B413A		AC-VI- Organizational Behaviour		4	4	25	75	100	
19B4Na		IV	NMEC-I -Banking		2	2	25	75	100
19B4Nb			NMEC –I- Human Resource Development		2	2	25	75	100
19SSC			Soft Skill Course		0	2	25	75	100
<b>Total Hours and Credits (Semester – IV)</b>				<b>30</b>	<b>23</b>	<b>200</b>	<b>600</b>	<b>800</b>	



19B514	V	III	CC-VIII- Human Resource Management	6	5	25	75	100
19B515			CC-IX- Production and Operation Management	6	5	25	75	100
19B516			CC-X- Management Accounting	6	5	25	75	100
19B517			CC-XI-International Business	5	4	25	75	100
19B518a			EC-I- Advertising and Sales Promotion	5	4	25	75	100
19B518b		EC –I – Total Quality Management						
19B5Na		IV	NMEC-II- Entrepreneurship Development	2	2	25	75	100
19B5Nb			NMEC-II- Organizational Behaviour and Psychology					
Total Hours and Credits (Semester – V)				30	25	150	450	600
19B619	VI	III	CC-XII- Taxation for Managers	6	5	25	75	100
19B620			CC-XIII- Financial Management	6	5	25	75	100
19B621			CC-XIV- Entrepreneurial Development	5	4	25	75	100
19B622			CC-XV- Strategic Management	5	5	25	75	100
19B623b			EC-II- Investment Management	4	4	25	75	100
19B623a			EC –II-Export Management					
19B624a			EC-III- Industrial Relation	4	3	25	75	100
19B624b		EC –III- Logistics and supply chain management						
19EA	IV	Extension Activities	0	1	--	--	--	
				30	27	150	450	600
TOTAL				180	140	1000	3000	4000
Extra Courses (Offered by College)								
		SKBC-III	SKBC (Self study)	-	2	--	100	100
19BC		CC	Comprehension Course	-	4	--	100	100
GRAND TOTAL (for all semesters)				180	146			4200

**MASTER OF BUSINESS ADMINISTRATION (MBA) Course Structure under CBCS**

Semester	Course Codes	Title of the Course	Hours	Credit	Int. Marks	Ext. Marks	Total	
<b>I</b>	18PMB101	CC - I Management concepts	5	5	25	75	100	
	18PMB102	CC - II Managerial Communication	5	5	25	75	100	
	18PMB103	CC - III Mathematics & Statistics	5	5	25	75	100	
	18PMB104	CC - IV Managerial Economics	5	5	25	75	100	
	18PMB105	CC - V Organisational Behaviour	5	5	25	75	100	
	18PMB106	CC - VI Management Accounting	5	5	25	75	100	
		<b>Total</b>		<b>30</b>	<b>30</b>	<b>150</b>	<b>450</b>	<b>600</b>
<b>II</b>	18PMB207	CC –VII- Operation Research	5	5	25	75	100	
	18PMB208	CC-VIII- Production Management	5	5	25	75	100	
	18PMB209	CC-IX-Marketing Management	5	5	25	75	100	
	18PMB210	CC –X- Financial Management	5	5	25	75	100	
	18PMB211	CC –XI- Human Resource Management	5	5	25	75	100	
	18PMB212	CC –XII-Legal Aspects of Business	5	5	25	75	100	
		<b>Total</b>		<b>30</b>	<b>30</b>	<b>150</b>	<b>450</b>	<b>600</b>
<b>III</b>	18PMB313	CC –XIII- Business Research Methods	5	5	25	75	100	
	18PMB314	CC –XIV-Strategic Management	5	5	25	75	100	
	18PMB315A1	EC- I – Consumer Behaviour	5	4	25	75	100	
	18PMB316A2	EC- II – Digital Marketing	5	4	25	75	100	
	18PMB317B1	EC- III- Security Analysis & Portfolio Management	5	4	25	75	100	
	18PMB318B2	EC- IV- Retail Bank Management	5	4	25	75	100	
		Summer Internship			4	25	75	100
	<b>Total</b>		<b>30</b>	<b>30</b>	<b>175</b>	<b>525</b>	<b>700</b>	
<b>IV</b>	18PMB419	CC –XV-International Business Environment	5	5	25	75	100	
	18PMB420	CC –XVI-Entrepreneurial Development	5	5	25	75	100	
	18PMB421	EC –V - Advertising & Brand Management	5	4	25	75	100	
	18PMB422	EC –VI – Retail Management	5	4	25	75	100	
	18PMB423	EC –VII- Financial Services	5	4	25	75	100	
	18PMB424	EC –VIII- Financial Institutions and Markets	5	4	25	75	100	
		<b>Total</b>		<b>30</b>	<b>26</b>	<b>150</b>	<b>350</b>	<b>600</b>
		<b>18PMB425P</b>	Actual Project during the vacation of III semester and Viva Exam before the IV semester Exam	-	6	25	75	100
	<b>Total</b>			<b>6</b>	<b>25</b>	<b>75</b>	<b>100</b>	
	<b>Grand Total</b>		<b>120</b>	<b>122</b>	<b>650</b>	<b>1950</b>	<b>2600</b>	

**Electives : Choose any two Group A/B/C/D/E/F/G**  
**\* Two Papers from Each Group for Semester III and Semester IV**

Semester	Course	Subject Title	Hours	Credit	Int. Marks	Ext. Marks	Total
<b>A: Marketing</b>							
III		Consumer Behaviour	5	4	25	75	100
		Digital marketing	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>B : Finance</b>							
III		Security Analysis & Portfolio Management	5	4	25	75	100
		Retail Bank Management	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
IV		Advertising & Brand Management	5	4	25	75	100
		Retail Management	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>C : Human Resource</b>							
III		Strategic Human Resource Management	5	4	25	75	100
		Industrial Relations	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
III		Financial Services	5	4	25	75	100
		Financial Institutions and Markets	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>D. Information Technology</b>							
III		Information security in business	5	4	25	75	100
		E-business	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
III		Enterprise resource planning	5	4	25	75	100
		Cyber law	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>E : Operations</b>							
III		Quality Management	5	4	25	75	100
		Supply Chain Management	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
III		Material Management	5	4	25	75	100
		Production Planning & Control	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>F : Hospital Management</b>							
III		Hospital And Patient Relation Management	5	4	25	75	100

		Health Insurance	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>III</b>		Hospital Support Services	5	4	25	75	100
		Operations Management In Healthcare	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>G : Agri Business Management</b>							
<b>III</b>		Rural Markeitng	5	4	25	75	100
		Fertilizer Technology And Management	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>
<b>III</b>		Food Processing Management	5	4	25	75	100
		Agri Supply Chain Management	5	4	25	75	100
<b>Total</b>			<b>10</b>	<b>8</b>	<b>50</b>	<b>150</b>	<b>200</b>



III	19T303	Cheyyl (Kappiyangal), Puthinam, Tamizh ilakkia varalaru	6	3	3	25	75	100
	19H303	ELC –III- English for Communication -III	6	3	3	25	75	100
	19BY307	CC –IV -Microbiology and Plant Pathology	5	5	3	25	75	100
	19BY308L	CC –V - Practical –II (Microbiology and Plant Pathology & Cytology and Genetics)*	3	-	*	-	-	-
	19BY309 A	AC –IV - Allied Chemistry- I	5	4	3	25	75	100
	19BY310L	AC –V- Allied Chemistry Practical	3	-	*	-	-	-
	19XBY32	SKBC–II- Mushroom Technology	2	2	3	25	75	100
	19GS	Gender Studies	0	1	3	-	100	100
		<b>Total</b>	<b>30</b>	<b>18</b>		-	-	<b>600</b>
IV	19T404	Cheyyl (Pazhantamizh illakkiyam), Nandakam, Tamizh ilakkia varalaru, Katturai Varaiyiyal	6	3	3	25	75	100
	19H404	ELC-IV-English for Communication -IV	6	3	3	25	75	100
	19BY308L	Practical –II (Microbiology and Plant Pathology& Cytology and Genetics)*	3	4	3	40	60	100
	19BY411	CC-VI-Cytology and Genetics	5	5	3	25	75	100
	19BY310L	AC –V- Allied Chemistry Practical	3	4	3	40	60	100
	19BY412 A	AC –VI – Allied Chemistry –II	5	4	3	25	75	100
	19BY4Nb	NMEC –I - Horticulture	2	2	3	25	75	100
	19BY4Na	NMEC –I – Food Science and Nutrition						
	19SSC	Soft Skills Course	0	2		-	100	100
	<b>Total</b>	<b>30</b>	<b>27</b>		-	-	<b>800</b>	
V	19BY513	CC –VII-Plant Anatomy and Embryology	6	5	3	25	75	100
	19BY514	CC –VIII-Plant Systematics and Economic Botany	6	5	3	25	75	100
	19BY515	CC –IX- Biochemistry and Biophysics	5	4	3	25	75	100

	19BY516L	CC–X-Practical–III (Plant Anatomy and Embryology & Plant Systematic and Economic Botany & Biochemistry and Biophysics)	6	5	3	40	60	100
	19BY517a	EC–I-Horticulture and Plant Breeding	5	5	3	25	75	100
	19BY517b	EC-I- Medicinal Botany						
	19BY5Na	NMEC –II- Edible Mushroom Cultivation	2	2	3	25	75	100
	19BY5Nb	NMEC –II- Green House Technology						
		<b>Total</b>	<b>30</b>	<b>26</b>		<b>-</b>	<b>-</b>	<b>600</b>
VI	19BY618	CC –XI-Plant Physiology	6	5	3	25	75	100
	19BY619	CC –XII- Plant Biotechnology	6	5	3	25	75	100
	19BY620L	CC –XIII- Practical –IV (Plant Physiology & Plant biotechnology)	6	5	3	40	60	100
	19BY621a	EC –II- Floriculture	6	5	3	25	75	100
	19BY621b	EC-II- Plant Ecology and Phytogeography						
	19BY622a	EC-III- Bioinformatics and Biostatistics	6	5	3	25	75	100
	19BY622b	EC –III- Seed Science Technology						
	19EA	EA-Extension Activities	-	1		-	-	-
			<b>Total</b>	<b>30</b>	<b>26</b>			<b>-</b>
		<b>Over all Total</b>	<b>180</b>	<b>140</b>		<b>-</b>	<b>-</b>	<b>38000</b>
	19BYC	Comprehensive course	0	4	3	-	100	100
		SKBC - III	0	2	3	-	100	100
		<b>Over all Total (including self study)</b>	<b>180</b>	<b>146</b>				<b>4000</b>

\* Examination will be conducted at the end of even semester

**GROUP-I Elective Course -I (SEMESTER-V)**

Sub Code	Title of the course	Inst. Hrs /Week	Credits	Marks		
				Int	ext	Total
	Horticulture and Plant Breeding	5	5	25	75	100
	Medicinal Botany	5	5	25	75	100

**GROUP-II Elective Course-II (SEMESTER-VI)**

Sub Code	Title of the course	Inst. Hrs /Week	Credits	Marks		
				Int	ext	Total
	Plant Ecology and Phytogeography	6	5	25	75	100
	Floriculture	6	5	25	75	100

**GROUP-III Elective Course-III (SEMESTER-VI)**

Sub Code	Title of the course	Inst. Hrs /Week	Credits	Marks		
				Int	ext	Total
	Bioinformatics and Biostatistics	6	5	25	75	100
	Seed science Technology	6	5	25	75	100

**NMEC-I (SEMESTER-IV)**

Sub Code	Title of the course	Inst. Hrs /Week	Credits	Marks		
				Int	ext	Total
	Horticulture	2	2	25	75	100
	Food science and Nutrition	2	2	25	75	100

**NMEC-II (SEMESTER-V)**



Sub Code	Title of the course	Inst. Hrs /Week	Credits	Marks		
				Int	ext	Total
	Edible Mushroom Cultivation	2	2	25	75	100
	Green House Technology	2	2	25	75	100

### SKILL BASED COURSE (SKBC)

SEM	Sub Code	Title of the course	Inst. Hrs /Week	Credits	Marks		
					Int	ext	Total
<b>II</b>		Biofertilizers and Organic Farming	2	2	25	75	100
<b>III</b>		Mushroom Technology	2	2	25	75	100
<b>VI</b>		Nursery and Gardening	0	2	-	100	100

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**  
**M.Sc., BOTANY Programme - Course Structure**  
**Under CBCS (Choice Based Credit System)**  
(For the candidates admitted during the year 2018 onwards)

Sem	Course code	Title of the Course	Hrs/ week	Credits	Exam Hrs.	Marks		Total
						Int	Ex t	
		<b>Semester – I</b>						
I	18PBY101	CC-I- Plant Diversity – I (Algae, Fungi, Lichens & Bryophytes)	4	4	3	25	75	100
	18PBY102	CC-II -Plant Diversity–II (Pteridophytes, Gymnosperms & Paleobotany)	5	4	3	25	75	100
	18PBY103	CC-III Microbiology, Plant Pathology & Immunology	5	4	3	25	75	100
	18PBY104	CC-IV Genetics, Plant breeding and Biostatistics.	5	4	3	25	75	100
	18PBY105L	CP-I (Covering CC-I to CC-IV)	6	4	4	40	60	100
	18PBY106	EC-I – Forestry	5	5	3	25	75	100
			<b>30</b>	<b>25</b>		<b>165</b>	<b>435</b>	<b>600</b>
II	18PBY207	CC-V Developmental Botany	6	4	3	25	75	100
	18PBY208	CC-VI Cell and Molecular Biology	6	4	3	25	75	100
	18PBY209	CC-VII Plant Biochemistry	6	4	3	25	75	100
	18PBY210L	CP-II (Covering CC-V to CC-VII)	6	4	4	40	60	100
	18PBY211b	EC-II – Plant Tissue Culture	6	4	3	25	75	100
			<b>30</b>	<b>20</b>		<b>140</b>	<b>360</b>	<b>500</b>
III	18PBY312	CC-VIII Plant Physiology	6	4	3	25	75	100
	18PBY313	CC-IX Plant Systematics	6	4	3	25	75	100
	18PBY314L	CP-III (Covering CC-VIII to CC-IX)	6	4	4	40	60	100
	18PBY315	EC-III Ecology and Phytogeography	6	4	3	25	75	100
	18PBY316	EC-IV Biofertilizers Technology	6	4	3	25	75	100
			<b>30</b>	<b>20</b>		<b>140</b>	<b>360</b>	<b>500</b>
IV	18PBY417	CC-X Research Methodology	5	5	3	25	75	100
	18PBY418	CP-IV –Research Methodology	5	5	3	40	60	100
	18PBY419	EC-V – Plant Biotechnology and Genetic Engineering	5	5	3	25	75	100
	18PBY420P	Project work	15	10	-	-	100	100
			<b>30</b>	<b>25</b>		<b>90</b>	<b>310</b>	<b>400</b>
		<b>Total</b>	<b>120</b>	<b>90</b>	<b>-</b>	<b>535</b>	<b>1465</b>	<b>2000</b>

## B.Sc., CHEMISTRY (UG) COURSE STRUCTURE UNDER CBCS PATTERN

(For the Candidates admitted from (2019-2020 onwards))

Sem		Course Code	Title of the Course	H/W	Credit	Internal	External	Total
I	Part-I	19T101	LC-I Language Course-I Tamil	6	3	25	75	100
	Part-II	19H101	ELC-I English Language Course-I	6	3	25	75	100
	Part-III	19Y101	CC-I General Chemistry – I	5	4	25	75	100
		19Y102L	CC-II Volumetric Analysis Practical– I	3	-	-	-	-
		19Y103A	AC-I Allied Mathematics – I	5	4	25	75	100
		19Y104A	AC-II – Allied Mathematics – II	5	4	25	75	100
	Part-IV	19VED	VE Value Education	2	2	25	75	100
				32	20			600
II	Part-I	19T202	LC-II Language Course-II Tamil	6	3	25	75	100
	Part-II	19H202	ELC-II English Language Course-II	6	3	25	75	100
	Part-III	19Y205	CC-III General Chemistry – II	4	4	25	75	100
		19Y102L	CC-II Volumetric Analysis Practical-I	3	4	40	60	100
		19Y206A	AC-III Mathematics – III	5	4	25	75	100
	Part-IV	19XY21	SKBC-I Material Chemistry and Nanotechnology	2	2	25	75	100
	Part-IV	19EVS	EVS Environmental Studies	2	2	25	75	100
				28	22			700
III	Part-I	19T303	LC-III Language Course-III Tamil	6	3	25	75	100
	Part-II	19H303	ELC-III English Language Course-III	6	3	25	75	100
	Part-III	19Y307	CC-IV General Chemistry – III	5	5	25	75	100
		19Y308L	CC-V Inorganic Microscale Qualitative Analysis – Practical II	3	-	-	-	-
		19Y309A	AC-IV – Allied Physics –I	5	4	25	75	100
		19Y310L	AC-V – Allied Physics Practical-I	3	-	-	-	-
	Part-IV	19XY32	SKBC-II Chemistry of consumer products	2	2	25	75	100
	Part-IV	19GS	Gender Studies	-	1	-	100	100
				30	18			600

IV	Part-I	19T404	LC-IV Language Course-IV Tamil	6	3	25	75	100
	Part-II	19H404	ELC-IV English Language Course-IV	6	3	25	75	100
	Part-III	19Y411	CC-VI General Chemistry – IV	5	5	25	75	100
		19Y308L	CC-V- Inorganic Microscale Qualitative Analysis – Practical II	3	4	40	60	100
		19Y310L	AC-V –Allied Physics practical II	3	4	40	60	100
		19Y412A	AC –VI- Allied Physics -II	5	4	25	75	100
	Part-IV	19Y4N	NMEC-I Agricultural Science	2	2	25	100	100
Part-IV	19SSC	Soft skill	-	2	25	75	100	
				30	27			800
V	Part-III	19Y513	CC-VII Inorganic Chemistry – I	6	5	25	75	100
		19Y514	CC-VIII- Organic Chemistry – I	6	5	25	75	100
		19Y515	CC-IX Physical chemistry – I	5	5	25	75	100
		19Y516L	CC-X -Gravimetric Analysis & Organic compound analysis	3	-	-	-	-
		19Y517L	CC-XI- Physical chemistry experiment & Organic preparation – Lab	3	-	-	-	-
	Part-III	19Y518	EC-I Analytical chemistry	5	5	25	75	100
	Part-IV	19Y5N	NMEC-II Dairy Chemistry	2	2	25	75	100
				30	22			500
VI	Part-III	19Y619	CC-XII Inorganic Chemistry – II	6	5	25	75	100
		19Y620	CC-XIII Organic Chemistry – II	6	5	25	75	100
		19Y516L	CC-X Gravimetric analysis & Organic compound analysis	3	5	40	60	100
		19Y517L	CC-XI Physical chemistry experiment & Organic preparation – Lab	3	5	40	60	100
		19Y621	EC-II Electrochemistry and Molecular Spectroscopy	6	5	25	75	100
		19Y622	EC-III Molecular Dynamics	6	5	25	75	100
	Part-IV	Extension Activities		-	1	-	-	100
				30	31			700
		Total		<b>180</b>	<b>140</b>			4000
	Part-IV	19YC	CC Comprehensive Course	-	4	-	-	100

**M.Sc., CHEMISTRY**  
**Choice based Credit System (CBCS)**  
**2019-2020**

<b>SEM</b>	<b>Course</b>	<b>Subject Title</b>	<b>Hrs/ Week</b>	<b>Cre dit</b>	<b>Int</b>	<b>Ext</b>	<b>Total</b>
<b>I</b>	19PY101	CC-I Inorganic Chemistry-I	6	4	25	75	100
	19PY102	CC-II Organic Chemistry-I	6	4	25	75	100
	19PY103	CC-III Physical Chemistry-I	6	4	25	75	100
	19PY104L	CC-IV Organic Chemistry Practical-I	6	4	40	60	100
	19PY105L	CC-V Physical Chemistry Practical- I	6	4	40	60	100
<b>II</b>	19PY206	CC-VI -Inorganic Chemistry-II	5	4	25	75	100
	19PY207	CC-VII - Organic Chemistry-II	5	4	25	75	100
	19PY208L	CC-VIII -Inorganic Chemistry Practical-I	5	4	40	60	100
	19PY209L	CC-IX Physical chemistry Practical-II	5	4	40	60	100
	19PY210	EC-I Advanced Topics in Physical Chemistry	5	5	25	75	100
	19PY211	OEC-I Green & Industrial Chemistry/Forensic Science	5	4	25	75	100
<b>III</b>	19PY312	CC-X Inorganic Chemistry-III	5	4	25	75	100
	19PY313	CC-XI Organic Chemistry-III	5	4	25	75	100
	19PY314	CC-XII Physical Chemistry-III	5	4	25	75	100
	19PY315L	CC-XIII Inorganic Chemistry Practical- II	5	4	40	60	100
	19PY316L	CC-XIV Organic Chemistry Practical- II	5	4	40	60	100
	19PY317	EC-II Instrumentation and Material Chemistry	5	5	25	75	100
<b>IV</b>	19PY418	EC-III Special Topics in Organic Chemistry	6	5	25	75	100
	19PY419	EC-IV Electro and Surface Chemistry	6	5	25	75	100
	19PY420P	PW Project Work**	18	10	25	75	100
		<b>Grand Total</b>	<b>120</b>	<b>90</b>	<b>500</b>	<b>1500</b>	<b>2000</b>

<b>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</b>								
<b>Curriculum Framework for the candidates to be admitted for the year 2019-2020</b>								
<b>SEM</b>	<b>PART</b>	<b>TITLE</b>	<b>HRS</b>	<b>CRE</b>	<b>CIA</b>	<b>EE</b>	<b>TOT</b>	
<b>19T101</b>	<b>I</b>	<b>I</b> LC - I (Tamil)	6	3	25	75	100	
<b>19H101</b>		<b>II</b> ELC - I (English)	6	3	25	75	100	
<b>19S101</b>		<b>III</b>	CC -I Problem solving using Python	5	5	25	75	100
<b>19S102L</b>			CC - II Problem Solving Lab	3	2	40	60	100
<b>19S103A</b>			AC - I Basic Mathematics	4	4	25	75	100
<b>19S104A</b>			AC - II Operations Research	4	4	25	75	100
<b>19VED</b>		<b>IV</b> VE - Value Education	2	2	25	75	100	
<b>19T202</b>	<b>II</b>	<b>I</b> LC - II (Tamil )	6	3	25	75	100	
<b>19H202</b>		<b>II</b> ELC - II (English)	6	3	25	75	100	
<b>19S205</b>		<b>III</b>	CC - III Programming in C and Data structures	6	5	25	75	100
<b>19S206L</b>			CC - IV Data structures using C Lab	3	2	40	60	100
<b>19S207A</b>			AC - III Numerical and Statistical Methods	5	4	25	75	100
<b>19XS21L</b>		<b>IV</b>	SKBC - I Data Analytic Lab	2	2	25	75	100
<b>19EVS</b>			EVS - Environmental Science	2	2	25	75	100
<b>19T303</b>	<b>III</b>	<b>I</b> LC - III (Tamil)	6	3	25	75	100	
<b>19H303</b>		<b>II</b> ELC - III (English)	6	3	25	75	100	
<b>19S309</b>		<b>III</b>	CC - V Object oriented programming using C++	5	5	25	75	100
<b>19S310L</b>			CC - VI OOPS Lab	3	2	40	60	100
<b>19S311A</b>			AC - IV Applied Physics I	5	4	25	75	100
<b>19S312L</b>			AC - V Applied Physics I Lab	3	-	-	-	-
<b>19XS32L</b>		<b>IV</b>	SKBC - II Image Editing Lab	2	2	25	75	100
<b>19GS</b>	GS - Gender Studies		0	1	25	75	100	

<b>BACHELOR OF SCIENCE IN COMPUTER SCIENCE</b>									
<b>Curriculum Framework for the candidates to be admitted for the year 2019-2020</b>									
	<b>SEM</b>	<b>PART</b>	<b>TITLE</b>	<b>HRS</b>	<b>CRE</b>	<b>CIA</b>	<b>EE</b>	<b>TOT</b>	
<b>19T404</b>	<b>IV</b>	<b>I</b>	LC - IV (Tamil)	6	3	25	75	100	
<b>19H404</b>		<b>II</b>	ELC - IV( English)	6	3	25	75	100	
<b>19S413</b>				CC - VII Database Systems	5	5	25	75	100
<b>19S414L</b>				CC - VIII RDBMS Lab	3	2	40	60	100
<b>19S312L</b>				AC - V Applied Physics Lab	3	4	40	60	100
<b>19S415A</b>				AC - VI Applied Physics II	5	4	25	75	100
<b>19S4Na</b>		<b>IV</b>		NMEC I- Internet and Web design	2	2	25	75	100
<b>19S4Nb</b>				NMEC I-BPO and Health Care					
<b>19SSC</b>				SSC - Soft Skills Course	0	2	25	75	100
<b>19S516</b>		<b>V</b>	<b>III</b>	CC - IX Programming in JAVA	6	5	25	75	100
<b>19S517</b>				CC - X Principles of Operating System	5	5	25	75	100
<b>19S518</b>				CC - XI Computer System Architecture	6	5	25	75	100
<b>19S519L</b>				CC - XII Java and System Administration Lab	6	4	40	60	100
<b>19S520</b>				EC - I	5	5	25	75	100
<b>19S5NLa</b>	<b>IV</b>			NMEC II - Image Editing Tools Lab	2	2	25	75	100
<b>19S5NLb</b>				NMEC -II - Office Automation Lab					
<b>19S621</b>	<b>VI</b>	<b>III</b>	CC - XIII Computer Networks	6	5	25	75	100	
<b>19S622</b>				CC - XIV Software Engineering	6	5	25	75	100
<b>19S623L</b>				CC - XV Application Development Lab	6	4	40	60	100
<b>19S624</b>				EC - II	5	5	25	75	100
<b>19S625</b>				EC - III	5	5	25	75	100
<b>19E1</b>		<b>IV</b>		EA - Extension Activities	0	1	-	-	-
		<b>III</b>		Technical Skill Development	2	-	-	-	-
					<b>180</b>	<b>140</b>	<b>1105</b>	<b>2895</b>	<b>4000</b>
19SC		<b>III</b>	Comprehensive Course		<b>4*</b>				

<b>List of Elective Courses:</b>			
1	WAP and WML	6	Mobile Application Development
2	Principles of Interactive Computer Graphics	7	.NET programming
3	Service Oriented Architecture	8	Haskell programming
4	Web Technology	9	R Programming
5	Ruby On Rails		

**NEHRU MEMORIAL COLLEGE [AUTONOMOUS]**

**MASTER OF SCIENCE[COMPUTER SCIENCE] FROM 2019-2020**

Course codes	TITLE	HRS	CREDIT	CI	EE	TOTAL
<b>SEMESTER - I</b>						
19PS101	CC-I - Graph and Automata Theory	6	5	25	75	100
19PS102	CC-II- Design and Analysis of Algorithms	6	5	25	75	100
19PS103	CC-III- Advanced Data Base System	6	5	25	75	100
19PS104	CC-IV- Open Source Technologies	6	5	25	75	100
19PS105L	CC-V - Lab - I – Open Source Technologies	6	4	40	60	100
<b>SEMESTER - II</b>						
19PS206	CC-VI-Programming in JAVA and J2EE	4	4	25	75	100
19PS207	CC-VII - Soft Computing	5	4	25	75	100
19PS208	CC-VIII -Data Mining and Data Ware Housing	5	4	25	75	100
19PS209L	CC-IX-Lab-II- Java & J2EE	6	4	40	60	100
19PS210c	CEC-I Principles of Wireless and Mobile Network	6	4	25	75	100
19PS210b	CEC-I Digital Image Processing					
19PS210a	CEC-I Advanced Operating System					
19PS211b	OEC R Programming	4	4	25	75	100
19PS211c	OEC Web Technology					
19PS211a	OEC Functional Programming using Haskell					
<b>SEMESTER – III</b>						
19PS312	CC-X -AI and Machine Learning	5	4	25	75	100
19PS313	CC-XI-Principles of Compiler Design	5	4	25	75	100
19PS314	CC-XII - Internet of Things	4	4	25	75	100
19PS315	CC-XIII- Rapid Application Development Using Python	4	4	25	75	100
19PS316L	CC-XIV -Lab - III –Machine Learning	6	4	40	60	100
19PS317a	CEC-II Cloud Computing	6	4	25	75	100
19PS317c	CEC-II Service Oriented Architecture					
19PS317b	CEC-II Graphics and Human Computer Interaction					



<b>SEMESTER - IV</b>						
<b>19PS418a</b>	<b>CEC-III Big Data Analytics</b>	6	4	25	75	100
<b>19PS418b</b>	<b>CEC-III Network Security</b>					
<b>19PS418c</b>	<b>CEC-III Web Application Architecture</b>					
<b>19PS419b</b>	<b>CEC-IV Software Project Management</b>	6	4	25	75	100
<b>19PS419a</b>	<b>CEC-IV Software Forensics</b>					
<b>19PS419c</b>	<b>CEC-IV Software Testing</b>					
<b>19PS420P</b>	<b>CC-XV PROJECT</b>	18	10	25	75	100
	<b>TOTAL</b>	<b>120</b>	<b>90</b>			<b>2000</b>

**B.Sc. Data Science Course Structure under CBCS**  
(For the Candidates admitted on the Academic year 2019-2020 onwards)

Semester	Course Code	Part	Title of the course	Instru. Hours/ Week	Credit	Exam Hours	Marks		Total
							Int	Extn	
I	19T101	I	LC- I –Tamil	6	3	3	25	75	100
	19H101	II	E L C - I -English	6	3	3	25	75	100
	19DS101	III	Cc-I - Java Programming	6	5	3	25	75	100
	19DS102L		CC –II- Java Programming Lab	3	2	3	40	60	100
	19DS103a		AC –I – Statistics -I	4	4	3	25	75	100
	19DS104L		AC –IIa- R Programming Lab	3	-	-	-	-	-
	19VED	IV	VE- Value Education	2	2	3	25	75	100
			<b>Total</b>		<b>30</b>	<b>19</b>			<b>600</b>
II	19T202	I	LC-II- Tamil	6	3	3	25	75	100
	19H202	II	EL C – II - English	6	3	3	25	75	100
	19DS205	III	CC – III - Database Systems	5	5	3	25	75	100
	19DS206L		CC- IV - MySQL Lab	3	2	3	40	60	100
	19DS207A		AC – III - Statistics II	4	4	3	25	75	100
	19DS104L		AC –IIa - R Programming Lab	2	2	4	40	60	100
	19DXS21	IV	SKBC-I- Office Automation Lab	2	2	3	40	60	100
			SKBC –I – HTML Lab						
	19EVS		Environmental Studies	2	2	3	25	75	100
			Total	<b>30</b>	<b>23</b>			<b>800</b>	
III	19T303	I	LC – III -Tamil	6	3	3	25	75	100
	19H303	II	ELC - III -English	6	3	3	25	75	100
	19DS308	III	CC – V -Python Programming and Data Structures		5	3	25	75	100
	19DS309L		CC-VI - Python Programming Lab	3	2	3	40	60	100
	19DS310A		AC – IV -Operations Research – I	4	4	3	25	75	100
	19DS311L		AC – Va -Mathematical Tool Lab	3	-	-	-	-	-
	19XDS21B	IV	SKBC – II -Shell Programming						
	19XDS21A (IL		SKBC – II -Animation Lab	2	2	3	40	60	100
	19GS		Gender Studies	0	1	3	25	75	100
				<b>30</b>	<b>20</b>			<b>700</b>	

IV	19T404	I	LC –IV –Tamil	6	3	3	25	75	100
	19H404	II	ELC–IV –English	6	3	3	25	75	100
	19DS412	III	CC – VII-Data Mining and Visualization	6	5	3	25	75	100
	19DS413L		CC – VIII- Data Mining and Visualization Lab	3	3	3	40	60	100
	19DS414A		AC–VI -Operations Research – II	4	4	3	25	75	100
	19DS311L		AC- Vb- Mathematical Tool Lab	3	3	3	40	60	100
	19DS4N	IV	NMEC –I -Fundamentals of Data Science	2	2	3	25	75	100
	19SSC		Soft Skills Course	0	2	3	25	75	100
				<b>30</b>	<b>25</b>				<b>800</b>
V	19DS513	III	CC IX - NoSQL Databases	6	5	3	25	75	100
	19DS514		CC X - Data Science for Business	6	5	3	25	75	100
	19DS515		CC-XI - Machine Learning	6	5	3	25	75	100
	19DS516L		CC XII - NoSQL Lab	4	4	3	40	60	100
	19DS517		EC-I-Genetic Algorithm/ Data Security	6	5	3	25	75	100
	19DS5N	IV	NMEC-II- Data Science for Entrepreneurship Development	2	2	3	25	75	100
				<b>30</b>	<b>26</b>				<b>600</b>
VI	19DS618	III	CC –XIII- Big Data Analytics	6	5	3	25	75	100
	19DS619		CC –XIV- Big Data Analytics Lab	4	4	3	40	60	100
	19DS620		CC –XV-Mini Project	6	5	3	40	60	100
	19DS621		EC –II- Simulation and Modeling /Data Warehouse Tools and Techniques	6	5	3	25	75	100
	19DS622		EC –III- Cloud Computing /Internet of things	6	5	3	25	75	100
	19E1	IV	Extension Activities	0	1	-	-	-	-
	19TSD		Technical Skill Development	2	2	-	-	-	-
			Total	<b>30</b>	<b>27</b>	-	-	-	<b>500</b>
			Grand Total	<b>180</b>	<b>140</b>	-	-	-	<b>4000</b>



# NEHRU MEMORIAL COLLEGE

**M.Sc. Data Science – Course Structure under CBCS - Batch 2019 onwards**

Sem	Course	Course Code	Subjects	Ins. Hrs/ Week	Crs	Exam Hrs	Marks		
							Int	Ext	Total
I	CC-I	19PDS101	Mathematics for Data Science	6	5	3	25	75	100
	CC-II	19PDS102	Advanced Data Base Systems	6	5	3	25	75	100
	CC-III	19PDS103	Data Mining Techniques	6	5	3	25	75	100
	CC-IV	19PDS104	Information Security	6	5	3	25	75	100
	CC-V	19PDS105L	Data Base Systems & Data Mining Lab	6	4	3	40	60	100
	TOTAL				30	24			
II	CC-VI	19PDS206	Probability and Statistical Computing	6	5	3	25	75	100
	CC-VII	19PDS207	Artificial Intelligence and Machine Learning	6	5	3	25	75	100
	CC-VIII	19PDS208L	Machine Learning Lab (Python/R)	6	4	3	40	60	100
	CEC-I	19PDS215a	Python Programming	6	4	3	25	75	100
		19PDS215b	R Programming						
	OEC-I	19PDS216a	Health Care Data Analytics	6	4	3	25	75	100
		19PDS216b	Social Media Mining						
TOTAL				30	22				500
III	CC-IX	19PDS309	Multivariate Techniques	6	5	3	25	75	100
	CC-X	19PDS310	Big Data Analytics	6	5	3	25	75	100
	CC-XI	19PDS311L	Big Data Analytics –Lab	6	4	3	40	60	100
	CEC-II	19PDS317a	Natural Language Processing	6	4	3	25	75	100
		19PDS317b	Financial Risk Analytics						
	CEC-III	19PDS318a	Cloud and Web Intelligence	6	4	3	25	75	100
		19PDS318b	Customer Relationship Management						
TOTAL				30	22				500
IV	CC-XII	19PDS412	Deep Learning	6	5	3	25	75	100
	CC-XIII	19PDS413	Predictive Analytics	6	5	3	25	75	100
	CC-XIV	19PDS414L	Predictive Analytics –Lab	6	4	3	40	60	100
	CEC-IV	19PDS419a	Business Intelligence	6	4	3	25	75	100
		19PDS419b	Image and Video Analytics						
	Project	19PDS420L	Internship/Project Work	6	4	-	25	75	100
TOTAL				30	22				500
				120	90				2000

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**  
**UG Programme (Mathematics) – Course Structure CBCS**  
**For the candidates admitted from 2019 – 2020 onwards**

Sem	Part	Code	Title of Course	Hrs/Wk	Cr	Marks		
						Int.	Ext.	Tot.
<b>I</b>	I	19T101	LC I – Tamil I	6	3	25	75	100
	II	19H101	ELC II – English I	6	3	25	75	100
	III	19M101	CC I – Calculus	5	4	25	75	100
	III	19M102	CC II – Trigonometry and Algebra	4	4	25	75	100
	III	19M103A	AC I – Allied Physics I	4	4	25	75	100
	III	19M104L	AC II – Physics Lab*	3	-	-	-	-
	IV	19VE	VE – Value Education	2	2	25	75	100
		<b>Total</b>	<b>7</b>	<b>30</b>	<b>20</b>	<b>150</b>	<b>450</b>	<b>600</b>
<b>II</b>	I	19T202	LC II – Tamil II	6	3	25	75	100
	II	19H202	ELC II – English II	6	3	25	75	100
	III	19M205	CC III – Differential Equations and its Applications	4	4	25	75	100
	III	19M206	CC IV – Laplace Transforms and Summation of Series	3	2	25	75	100
	III	19M104L	AC II – Physics Lab*	3	4	40	60	100
	III	19M207A	AC III – Allied Physics II	4	4	25	75	100
	IV	19XM21L	SKBC I – MS Office	2	2	25	75	100
	IV	19EVS	EVS – Environmental Studies	2	2	25	75	100
		<b>Total</b>	<b>8</b>	<b>30</b>	<b>24</b>	<b>215</b>	<b>585</b>	<b>800</b>
<b>III</b>	I	19T303	LC III – Tamil III	6	3	25	75	100
	II	19H303	ELC III – English III	6	3	25	75	100
	III	19M308	CC V – Analytical Solid Geometry	5	4	25	75	100
	III	19M309A	AC IV – Probability Theory	6	4	25	75	100
	III	19M310A	AC V – Statistical Methods	5	4	25	75	100
	IV	19XM32L	SKBC II – SCILAB	2	2	25	75	100
	IV	19GS	GS – Gender Studies	-	1	-	100	100
		<b>Total</b>	<b>7</b>	<b>30</b>	<b>21</b>	<b>150</b>	<b>550</b>	<b>700</b>

Sem	Part	Code	Title of Course	Hrs/Wk	Cr	Marks		
						Int.	Ext.	Tot.
IV	I	19T404	LC IV – Tamil IV	6	3	25	75	100
	II	19H404	ELC IV – English IV	6	3	25	75	100
	III	19M411	CC VI – Vector Calculus , Fourier Series & Fourier Transforms	5	4	25	75	100
	III	19M412	CC VII– Numerical Methods	5	4	25	75	100
	III	19M413AL	AC VI – R- Programming Lab	6	4	25	75	100
	IV	19M4N1	NMEC I – Quantitative Aptitude I	2	2	25	75	100
	IV	19SSC	SSC – Soft Skill Course	-	2	-	100	100
		<b>Total</b>		<b>7</b>	<b>30</b>	<b>22</b>	<b>150</b>	<b>550</b>
V	III	19M514	CC VIII – Modern Algebra	6	5	25	75	100
	III	19M515	CC IX – Real Analysis I	6	5	25	75	100
	III	19M516	CC X – Mechanics	6	5	25	75	100
	III	19M517	CC XI – Graph Theory	5	4	25	75	100
	III	19M518**	EC I	5	5	25	75	100
	IV	19M5N2	NMEC II – Quantitative Aptitude II	2	2	25	75	100
		<b>Total</b>		<b>6</b>	<b>30</b>	<b>26</b>	<b>150</b>	<b>450</b>
VI	III	19M619	CC XII – Real Analysis II	6	5	25	75	100
	III	19M620	CC XIII – Complex Analysis	6	5	25	75	100
	III	19M621	CC XIV- Discrete Mathematics	5	4	25	75	100
	III	19M622	CC XV – Mathematical Modeling	3	2	25	75	100
	III	19M623**	EC II	5	5	25	75	100
	III	19M624**	EC III	5	5	25	75	100
	V	19EA	Extension Activities	-	1	-	-	-
		<b>Total</b>		<b>7</b>	<b>30</b>	<b>27</b>	<b>150</b>	<b>450</b>
<b>TOTAL</b>			<b>42</b>	<b>180</b>	<b>140</b>	<b>965</b>	<b>3035</b>	<b>4000</b>
<b>Extra Cr. Courses (College)</b>			<b>+2</b>		<b>+6</b>		<b>+200</b>	<b>+200</b>

**\*Exam at the end of the academic year**

**\*\*EC - Elective Courses:**

Sem.	Elective Code	Code	Course
V	EC I	19M518b(T/L) 19M518a	Programming in C with Lab Fuzzy Theory
VI	EC II	19M623b 19M623a	Operations Research Astronomy
	EC III	19M624b(T/L) 19M624a	Object Oriented Programming in C++ with Lab Number Theory

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**  
**Post Graduate Programme Course Structure CBCS**  
**(For the candidates admitted from 2019-2020 onwards)**

Sem	Subject Code	Course	TITLE	HOURS	CREDIT	Int	Ext	TOTAL
I	19PM101	CC-I	Linear Algebra	6	5	25	75	100
	19PM102	CC-II	Real Analysis – I	6	5	25	75	100
	19PM103	CC-III	Ordinary Differential Equations	6	4	25	75	100
	19PM104	CC-IV	Integral Equations, Calculus of Variations and Fourier Transforms	6	4	25	75	100
	19PM105	CC-V	Classical Dynamics	6	5	25	75	100
	<b>Total</b>				<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>
II	19PM206	CC-VI	Algebra	6	5	25	75	100
	19PM207	CC-VII	Real Analysis – II	6	5	25	75	100
	19PM208	CC-VIII	Topology	6	5	25	75	100
	19PM209	CC-IX	Partial Differential Equations	6	4	25	75	100
		OEC	Open Elective Course	6	4	25	75	100
	<b>Total</b>				<b>30</b>	<b>23</b>	<b>125</b>	<b>375</b>
III	19PM311	CC-X	Complex Analysis	6	5	25	75	100
	19PM312	CC-XI	Differential Geometry	6	4	25	75	100
	19PM313	CC-XII	Measure and Integration	6	5	25	75	100
	19PM314	CEC-I	Elective Course I	6	4	25	75	100
	19PM315	CEC-II	Elective Course II	6	4	25	75	100
	<b>Total</b>				<b>30</b>	<b>22</b>	<b>125</b>	<b>375</b>
IV	19PM416	CC-XIII	Functional Analysis	5	5	25	75	100
	19PM417	CC-XIV	Stochastic Processes	5	4	25	75	100
	19PM418	CEC-III	Elective Course III	6	4	25	75	100
	19PM419	CEC-IV	Elective Course IV	6	4	25	75	100
		CC-XV	PROJECT	8	5	25	75	100
	<b>Total</b>				<b>30</b>	<b>22</b>	<b>125</b>	<b>375</b>
<b>GRAND TOTAL</b>				<b>120</b>	<b>90</b>	<b>500</b>	<b>1500</b>	<b>2000</b>

**EXTRA CREDIT COURSES OFFERED BY THE DEPARTMENT (OPTIONAL)**

SEMESTER	TITLE	Hours/Week	CREDIT	Ext
I	R Programming Lab	3	3	100
II	Mini Project	-	3	100
III	Any online certified course (Approved by BOS Chairman/HOD)	-	3	100
IV	Comprehensive Mathematics	-	3	100

**UG Programme-Physics ( 2019-2010 Batch)**  
**Course Structure - Choice Based Credit Sytem**

SE M	Part	Course Title	Course Code	Hrs/ Week	Credit	Marks		Total	
						IA	EA		
I	I	Tamil	19T101	6	3	25	75	100	
	II	English	19H101	6	3	25	75	100	
	III		CC-I-Mechanics	19P101	5	4	25	75	100
			CC-II Major Practical-I	19P102L	3	-	-	-	-
			AC-I-Allied Mathematics-I	19P103A	4	4	25	75	100
			AC-II-Allied Mathematics –II	19P104A	4	4	25	75	100
IV	VE-Value Education	19VED	2	2	25	75	100		
II	I	Tamil	19T202	6	3	25	75	100	
	II	English	19H202	6	3	25	75	100	
	III		CC-II*- Major Practical-I	19P102L	3	4	40	60	100
			CC-III- Properties of matter and sound	19P205	6	5	25	75	100
			AC-III- Allied Mathematics –III	19P206A	5	4	25	75	100
	IV		Environmental studies	19EVS	2	2	25	75	100
		SKBC-I- Testing of Electronic Components (Lab Only)	19XP21	2	2	25	75	100	
III	I	Tamil	19T303	6	3	25	75	100	
	II	English	19H303	6	3	25	75	100	
	III		CC-IV-Thermal Physics	19P307	5	5	25	75	100
			CC-V*- Major Practical-II	19P308L	3	-	-	-	-
			AC-IV-Allied Chemistry-I	19P309A	5	4	25	75	100
			AC-V*-Allied Chemistry Practical	19P310L	3	-	-	-	-
	IV	SKBC-II-Mini Project	19XP32P	2	2	25	75	100	
V	GENDER STUDIES	19GS	-	1	25	75	100		
IV	I	Tamil	19T404	6	3	25	75	100	
	II	English	19H404	6	3	25	75	100	
	III		CC-V*- Major Practical-II	19P308L	3	4	40	60	100
			CC-VI-Optics	19P411	5	5	25	75	100
			AC-V*-Allied Chemistry Practical	19P310L	3	4	40	60	100
			AC-VI- Allied Chemistry-II	19P412A	5	4	25	75	100
	IV		NMEC-I Bio Physics	19P4N	2	2	25	75	100
		Soft Skill Course	19SSC	0	2	25	75	100	
V	III	CC-VII*- Major Practical-III	19P513L	3	-	-	-	-	
		CC-VIII*- Major Practical IV	19P514L	3	-	-	-	-	
		CC-IX- Electricity and Magnetism	19P515	6	5	25	75	100	
		CC-X- Atomic and Nuclear Physics	19P516	5	4	25	75	100	
		CC-XI- Fundamentals of Electronics	19P517	6	5	25	75	100	
		EC-I – Programming in C	19P518A	5	5	25	75	100	
		EC –I - Python Programming	19P518B						
	NMEC-II – Energy Physics	19P5N	2	2	25	75	100		
VI	III	CC-VII*- Major Practical-III	19P513L	3	5	40	60	100	
		CC-VIII*- Major Practical IV	19P514L	3	5	40	60	100	
		CC-XII-Quantum Mechanics and Relativity	19P619	6	5	25	75	100	
		CC-XIII-Solid State Physics	19P620	6	5	25	75	100	



		EC-II- Communication Electronics	19P621a	6	5	25	75	100
		EC-II- Digital electronics	19P621b					
		EC-III- Microprocessor and its applications	19P622a	6	5	25	75	100
		EC-III- 8051 Microcontroller Architecture and programming	19P622b					
		<b>Comprehensive Course</b>	<b>19PC</b>					
	<b>VI</b>	<b>EXTENSION ACTIVITIES</b>	19EA		1			
		<b>Grand total</b>		<b>180</b>	<b>140</b>	<b>1025</b>	<b>2775</b>	<b>3800</b>

**Extra credit courses (Offered by college)**

1	Comprehensive	1	0 hours	4 credits
2	SKBC III	1	0 hours	2 credits
			Total Credits	146

**Elective Courses**

**Elective course-I (19P518)**

- (a) Programming in C
- (b) Python Programming

**Elective course-II (19P621)**

- (a) Digital electronics
- (b) Communication Electronics

**Elective course-III (19P622)**

- (a) Microprocessor and its applications
- (b) 8051 Microcontroller Architecture and programming

**M.Sc. Physics**  
**Course Structure – CBCS (2019-2020)**

<b>SEM</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Inst. Hours/Week</b>	<b>Credits</b>	<b>Int.</b>	<b>Ext.</b>	<b>Total</b>
I	19PP101	CC-I Mathematical Physics - I	6	5	25	75	100
	19PP102	CC-II Classical Dynamics and Special Relativity	6	5	25	75	100
	19PP103	CC-III Electronics and Instrumentation	6	5	25	75	100
	19PP104	OEC- PIC Microcontroller and Its Applications	6	5	25	75	100
	19PP105L	CC-IV Practical –I General Physics and Electronics	-	--	--	--	--
	19PP106L	CC-V Practical –II Microcontroller Programming Lab	-	--	--	--	--
II	19PP105L	CC-IV Practical –I General Physics and Electronics	3	4	40	60	100
	19PP106L	CC-V Practical –II Microcontroller Programming Lab	3	4	40	60	100
	19PP207	CC- VI Mathematical Physics - II	6	5	25	75	100
	19PP208	CC-VII Statistical Mechanics	6	5	25	75	100
	19PP209	CC-VIII Quantum Mechanics	6	5	25	75	100
	19PP210	CC-IX Computational Methods	6	4	--	100	100
III	19PP311	CC-X Electromagnetic Theory	6	5	25	75	100
	19PP312	CC-XI Solid State Physics	6	5	25	75	100
	19PP313L	CC-XII Practical – III Advanced General Physics and Instrumentation	3	--	--	--	--
	19PP314L	CC-XIII Practical – IV Digital Electronics and Computer Programming	3	-	-	-	-
	19PP315	EC-I – Atomic and Molecular Physics	6	4	25	75	100
	19PP316	EC-II – Crystal Growth and Thin films	6	4	25	75	100
IV	19PP313L	CC-XII Practical – III Advanced General Physics and Instrumentation	3	4	40	60	100
	19PP314L	CC-XIII Practical – IV Digital Electronics and Computer Programming	3	4	40	60	100
	19PP417	CC- XIV Nuclear and Particle Physics	6	4	25	75	100
	19PP418	EC-III – Electronic Communication Systems	6	4	25	75	100
	19PP419	EC- IV – Nano Science	6	4	25	75	100
	19PP420P	PW-Project Work*	6	5	25	75	100
				120	90	Total	

**B.Sc., ZOOLOGY PROGRAMME**  
**(2019-2020 ONWARDS)**

Course Code	Semester	Part	Course Title	Hrs/ week	Credits	Exam Hrs.	Marks		Total
							Int.	Ext.	
19T101	I	I	Tamil – I	6	3	3	25	75	100
19H101		II	English – I	6	3	3	25	75	100
19Z101		III	CC-I - Invertebrata	5	5	3	25	75	100
19Z102L			CC -II - Practical – I: Invertebrata	3	2	3	40	60	100
19Z103a			AC –I – Allied Botany-I	5	4	3	25	75	100
19Z104L			AC –II- Allied Botany Practical -I	3	-	*	-	-	-
19VED		IV	Value Education	2	2	3	25	75	100
			<b>Total</b>	<b>30</b>	<b>19</b>	-	-	-	<b>600</b>
<b>19T202</b>	II	I	Tamil – II	6	3	3	25	75	100
19H202		II	English – II	6	3	3	25	75	100
19Z205			CC –III-Chordata	4	4	3	25	75	100
19Z206L		III	CC –IV - Practical - II - Chordata	3	2	3	40	60	100
19Z104L			AC –II- Allied Botany Practical -I	3	4	3	40	60	100
19Z207A			AC –III- Allied Botany -II	4	4	3	25	75	100
19XZ21			SKBC-I – Apiculture	2	2	3	25	75	100
19EVS			Environmental Studies	2	2	3	25	75	100
			<b>Total</b>	<b>30</b>	<b>24</b>	-	-	-	<b>800</b>
19T303	III	I	Tamil -III	6	3	3	25	75	100
19H303		II	English -III	6	3	3	25	75	100
19Z308		III	CC –V- Cell Biology	5	5	3	25	75	100
19Z309L			CC –VI- Practical-III- Cell Biology	3	2	3	40	60	100
19Z310A			AC –IV – Allied Chemistry -I	5	4	3	25	75	100
19Z311L			AC-V- Allied Chemistry Practical	3	-	*	-	-	-
19XZ32		IV	SKBC-II - Poultry Farming and Dairy Farming	2	2	3	25	75	100
19GS			Gender Studies	0	1	3	-	100	100
			<b>Total</b>	<b>30</b>	<b>20</b>	-	-	-	<b>700</b>
19T404	IV	I	Tamil – IV	6	3	3	25	75	100
19H404		II	English – IV	6	3	3	25	75	100
19Z412		III	CC –VII- Animal Physiology	5	5	3	25	75	100
19Z413L			CC –VIII- Practical –IV- Animal Physiology	3	2	3	40	60	100

19Z311L			AC-V- Allied Chemistry Practical	3	4	3	40	60	100
19Z412A			AC- VI- Allied Chemistry-II	5	4	3	25	75	100
19Z4N		IV	NMEC-I- Entrepreneurial Zoology	2	2	3	25	75	100
19SSC			Soft Skill (self study course )	0	2	3	-	10 0	100
			<b>Total</b>	<b>30</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>
19Z513	V	III	CC –IX- Developmental Biology	6	5	3	25	75	100
19Z514			CC –X- Environmental Biology	6	5	3	25	75	100
19Z515			CC –XI- Immunology	5	4	3	25	75	100
19Z516L			CC –XII- Practical –V: Developmental Biology, Environmental Biology and Immunology.	6	5	3	40	60	100
19Z517a			MBEC –I- Biostatistics and Bioinstrumentation	5	5	3	25	75	100
19Z517b			MBEC –I- Microbiology						
19Z5N		IV	NMEC –II - Public Health and Hygiene	2	2	3	25	75	100
				<b>Total</b>	<b>30</b>	<b>26</b>	<b>-</b>	<b>-</b>	<b>-</b>
19Z618	VI	III	CC – XIII Genetics and Evolution	6	5	3	25	75	100
19Z619			CC – XIV Biotechnology and Bioinformatics	6	5	3	25	75	100
19Z620L			CC– XV- Practical –VI: Genetics, Evolution, Biotechnology and Bioinformatics	6	5	3	40	60	100
19Z621a			MBEC -II - Aquaculture and Fish Farming	6	5	3	25	75	100
19Z621b			MBEC-II- Endocrinology						
19Z622a			MBEC –III- Economic Entomology	6	5	3	25	75	100
19Z622b			MBEC –III- Wildlife Biology						
19EA		IV	Extension Activities	-	1	-	-	-	-
19ZC		IV	Comprehensive Course	0	4	3	-	100	100
		IV	SKBC-III – Sericulture ( Self study)	0	2	3	-	100	100
			<b>Total</b>	<b>30</b>	<b>32</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>
			<b>Over all Total (Including self study)</b>	<b>180</b>	<b>14</b> <b>6</b>				<b>4200</b>

#Major Based Elective Course-I

- Biostatistics and Bioinstrumentation
- Microbiology

#Major Based Elective Course-II

- Aquaculture and Fish Farming
- Endocrinology

#Major Based Elective Course -III

- Economic Entomology
- Wildlife Biology

\*Non-Major Elective Course-I: Entrepreneurial Zoology

- Biostatistics and Bioinstrumentation
- Microbiology

\*Non-Major Elective Course-II: Public Health and Hygiene

- Public Health and Hygiene
- Microbiology

§Skill Based Course I: Apiculture

§Skill Based Course II: Poultry Farming and Dairy Farming

§Skill Based Course III: Sericulture (Self study)

**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**  
**M.Sc., ZOOLOGY Programme - Course Structure**  
 Under CBCS (Choice Based Credit System)  
 (For the candidates admitted from the academic year 2019 – 2020 onwards)

Semester	Course Code (s)	Course Title	Hrs/ week	Credits	Exam Hrs.	Marks		Total
						Int	Ext	
<b>I</b>	19PZ101	<b>CC-I</b> Invertebrata and Chordata	6	4	3	25	75	100
	19PZ102	<b>CC-II</b> Cell and Molecular Biology	6	4	3	25	75	100
	19PZ103	<b>CC-III</b> Genetics	6	4	3	25	75	100
	19PZ104	<b>CC-IV</b> Biochemistry	6	4	3	25	75	100
	19PZ105 L	<b>CC-V</b> Practical- I (Covering CC-I to CC-IV)	6	4	3	40	60	100
			<b>30</b>	<b>20</b>		<b>140</b>	<b>360</b>	<b>500</b>
<b>II</b>	19PZ206	<b>CC-VI</b> Immunology	5	4	3	25	75	100
	19PZ207	<b>CC-VII</b> Animal Physiology	5	4	3	25	75	100
	19PZ208	<b>CC-VIII</b> Developmental Biology	4	4	3	25	75	100
	19PZ209 L	<b>CC-IX</b> Practical- II (Covering CC-VI to CC-VIII)	6	4	3	40	60	100
	19PZ210a	<b>EC-I</b> Microbiology	6	5	3	25	75	100
	19PZ210b	<b>EC-I</b> Wildlife and Conservation Biology						
	19PZ211b	<b>OEC</b> Medical Zoology	4	4	3	25	75	100
	19PZ211a	<b>OEC</b> Human Health and Hygiene						
			<b>30</b>	<b>25</b>		<b>165</b>	<b>435</b>	<b>600</b>
<b>III</b>	19PZ312	<b>CC-X</b> Research Methodology and Biotechniques	5	4	3	25	75	100
	19PZ313	<b>CC-XI</b> Evolution	5	4	3	25	75	100
	19PZ314	<b>CC-XII</b> Entomology	4	4	3	25	75	100
	19PZ315	<b>CC-XIII</b> Biotechnology	4	4	3	25	75	100
	19PZ316 L	<b>CC-XIV</b> Practical- III (Covering CC-X to CC-XIII)	6	4	3	40	60	100
	19PZ317b	<b>EC-II</b> Clinical Analysis and Laboratory Techniques	6	5	3	25	75	100
	19PZ317a	<b>EC-II</b> Aquaculture						
			<b>30</b>	<b>25</b>		<b>165</b>	<b>435</b>	<b>600</b>
<b>IV</b>	19PZ418a	<b>EC-III</b> Ecology and Eco toxicology	6	5	3	25	75	100
	19PZ418b	<b>EC-III</b> -Nanobiotechnology						
	19PZ419a	<b>EC-IV</b> Cancer and Stemcell Biology	6	5	3	25	75	100
	19PZ419b	<b>EC-IV</b> -Endocrinology						
	19PZ420P	<b>CC-XV</b> Project work	18	10	-	40	40+20*	100
			<b>30</b>	<b>20</b>		<b>75</b>	<b>225</b>	<b>300</b>
		<b>Total</b>	<b>120</b>	<b>90</b>	<b>-</b>	<b>545</b>	<b>1455</b>	<b>2000</b>

**UG Programme (B.Sc., HMCS) – Curriculum Framework**  
(For the Candidates admitted from 2019 – 2020 onwards)

SEM	PART	Course Code	Title of the Course	Ins. Hrs	Credits	CIA	EXT	Total	
<b>I</b>	Part – I	19HMHI101	LC –I-Language Course I - Hindi	6	3	25	75	100	
	Part - II	19HMH101	ELC-I-Communicative English -I	6	3	25	75	100	
	Part - III	19HM101	CC-I-Basic Food Production	5	4	25	75	100	
		19HM102	CC –II-Fundamentals of Front Office	3	3	25	75	100	
		19HM103A	AC-I- Basic Food and Beverage Service	5	4	25	75	100	
		19HM104A	AC-II-Accommodation Operation	3	3	25	75	100	
	Part - IV	19VED	Value Education and Human Rights	2	2	25	75	100	
<b>Total Hours and Credits (Semester – I)</b>				<b>7</b>	<b>30</b>	<b>22</b>	<b>175</b>	<b>525</b>	<b>700</b>
<b>II</b>	Part – III	19HM205L	CC –III- Basic Food Production Practical	6	5	40	60	100	
		19HM206L	CC –IV- Front Office Practical	6	5	40	60	100	
		19HMP	CC –V -IET Projects (6 Months)	10	7	140	60	200	
		19HM207L	AC –III- Food and Beverage Practical	6	6	40	60	100	
	Part – IV	19EVS	Environmental Studies	2	2	25	75	100	
<b>Total Hours and Credits (Semester – II)</b>				<b>5</b>	<b>30</b>	<b>25</b>	<b>285</b>	<b>315</b>	<b>600</b>
<b>III</b>	Part – I	19HMHI302	LC –II-Language Course II – Hindi	6	3	25	75	100	
	Part – II	19HMH302	ELC-II-Communicative English – II	6	3	25	75	100	
	Part – III	19HM308	CC –VI-Advanced Food Production	4	3	25	75	100	
		19HM309	CC –VII-Advanced Front Office Management	4	3	25	75	100	
		19HM310A	AC –IV-Bar and Beverage Operation	4	4	25	75	100	
		19HM311A	AC –V- Advanced Accommodation Operation	4	3	25	75	100	
		Part – IV	19XHM33	SKBC -I: Internet Web Designing	2	2	25	75	100
		19GS	Gender Studies	-	1	-	100	100	
<b>Total Hours and Credits (Semester – III)</b>				<b>8</b>	<b>30</b>	<b>22</b>	<b>175</b>	<b>625</b>	<b>800</b>
	Part – I	19HMHI403	LC –III - Language Course III – Hindi	6	3	25	75	100	
	Part – II	19HMH403	ELC –III -Communicative English - III	6	3	25	75	100	

<b>IV</b>	Part – III	19HM412L	CC –VIII- Advanced Food Production Practical-I	5	4	40	60	100	
		19HM413	CC –IX- Hotel Accounting and Costing	5	3	25	75	100	
		19HM414A	AC –VI- Accommodation Practical	4	4	40	60	100	
	Part – IV	19XHM42	SKBC – II: Web Designing Lab	2	2	40	60	100	
		19SSC	Soft Skills	-	2	-	100	100	
		19HM4N	NMEC- I- Basic Cookery	2	2	25	75	100	
<b>Total Hours and Credits (Semester – IV)</b>				<b>8</b>	<b>30</b>	<b>23</b>	<b>220</b>	<b>580</b>	<b>800</b>

<b>V</b>	Part – I	19HMH504	LC –IV -Language Course IV – Hindi	6	3	25	75	100	
	Part – II	19HMH504	ELC –IV- Communicative English - IV	6	3	25	75	100	
	Part – III	19HM515	CC –X -Hotel Law and Licensing	4	3	25	75	100	
		19HM516	CC –XI-Patisserie Theory	3	3	25	75	100	
		19HM517L	CC –XII-Patisserie Practical	4	4	40	60	100	
		19HM518	EC –I -	5	5	25	75	100	
	Part – IV	19HM5N	NMEC –II-: Basic Hindi	2	2	25	75	100	
<b>Total Hours and Credits (Semester – V)</b>				<b>7</b>	<b>30</b>	<b>23</b>	<b>190</b>	<b>510</b>	<b>700</b>
<b>VI</b>	Part – III	19HM619	CC –XIII- Advanced Food Production Practical – II	5	4	40	60	100	
		19HM620	CC –XIV -Management and Entrepreneurship	5	3	25	75	100	
		19HM621L	CC –XV-Advanced Food and Beverage Practical	5	4	40	60	100	
		19HM622	CC –XIV- Computer Application in Hotel Industry	5	3	40	60	100	
		19HM623	EC –II-	5	5	25	75	100	
		19HM624	EC –III-	5	5	25	75	100	
	Part – IV	19E1	Extension Activities	-	1	-	-	100	
<b>Total Hours and Credits (Semester – VI)</b>				<b>7</b>	<b>30</b>	<b>25</b>	<b>195</b>	<b>405</b>	<b>700</b>
				<b>180</b>	<b>140</b>	<b>..</b>	<b>..</b>	<b>4200</b>	
	Part – IV	19HMC	Comprehensive Course	-	4	-	-	100	
	Part – IV	SKBC III	SKBC – III-	-	2	..	100	100	

### BCA Curriculum Framework for the year 2019-2020

Course Code	SEM	PART	TITILE	HRS	CRE	CIA	EE	TOT	
19T101	I	I	LC - I (Tamil)	6	3	25	75	100	
19H101		II	ELC - I (English)	6	3	25	75	100	
19A101		III		CC - I Programming in C	5	5	25	75	100
19A102L				CC - II Programming in C Lab	3	2	40	60	100
19A103A				AC - I Statistical Methods	4	4	25	75	100
19A104A				AC-II Operations Research for computer applications	4	4	25	75	100
19VED		IV		VE - Value Education	2	2	25	75	100
19T202	II	I	LC - II (Tamil )	6	3	25	75	100	
19H202		II	ELC - II (English)	6	3	25	75	100	
19A205		III		CC - III Object Oriented Programming Using C++ and Data structures	6	5	25	75	100
19A206L				CC – IV C++ and Data structures Lab	3	2	40	60	100
19A207A				AC - III Algebra and Calculus	5	4	25	75	100
19XA21L		IV		SKBC - I Data Analytics Lab	2	2	25	75	100
19EVS				EVS - Environmental Science	2	2	25	75	100
19T303		I	Language Course - III (Tamil)	6	3	25	75	100	
19H303	III	II	English Language Course - III (English)	6	3	25	75	100	
19A308		III		CC - V Problem solving using Python	5	5	25	75	100
19A309L				CC- VI Python Lab	3	2	40	60	100
19A310A				AC - IV Principles of Accountancy	5	4	25	75	100
19A311L				AC - V Accounts Package Lab	3	-	-	-	-
19XA32			IV		SKBC - II Image Editing	2	2	25	75
19GS				GS - Gender Studies	0	1	25	75	100



19T404	IV	I	L C- IV (Tamil)	6	3	25	75	100
19H404		II	ELC- IV( English)	6	3	25	75	100
19A412L		III	AC - V Programming using 'R' Lab	3	4	40	60	100
19A413			CC - VII Database Systems	5	5	25	75	100
19A414L			CC - VIII RDBMS Lab	3	2	40	60	100
19A415			AC - VI Digital Principles and Fundamentals	5	4	25	75	100
19A4Nb		IV	NMEC -I - Internet and Web design	2	2	25	75	100
19A4Na			NMEC -I -BPO and Healthcare					
19SSC			SSC - Soft Skills Course	0	2	25	75	100
19A516	V	III	CC - IX Programming in JAVA	6	5	25	75	100
19A517			CC - X Principles of Operating System	5	5	25	75	100
19A518			CC - XI Data and Communication Networks	6	5	25	75	100
19A519L			CC - XII Java and System Administrations Lab	6	4	40	60	100
19A520a			EC- I- Big Data Analytics	5	5	25	75	100
19A520b		EC-I -Cloud Computing						
19A520c		EC -I - Mobile Commerce						
19A5Na		IV	NMEC II- BPO and Health Care	2	2	25	75	100
19A5Nb			NMEC -II - Internet and Webdesign					
19A621	VI	III	CC- XIII Mobile Apps Development	6	5	25	75	100
19A622			CC - XIV Web Technology	6	5	25	75	100
19A623L			CC - XV Mobile Apps and Web technology Lab	6	4	40	60	100
19A624a			EC- II- Artificial Intelligence and Expert System	5	5	25	75	100
19A624b			EC -II- Computer Graphics					
19A624c			EC -II- Software Engineering					
19A625a			EC - III - Distributed Application Using .NET	5	5	25	75	100
19A625b		EC - III - Internet of Things						
19A625c		EC - III - Soft computing						
19EA		IV	EA - Extension Activities	0	1	-	-	-
		III	Technical Skill Development	2	-	-	-	-
				180	140	1105	2895	4000
19AC		III	CH -Comprehensive Course		4*			100

NEHRU MEMORIAL COLLEGE [AUTONOMOUS]									
MASTER OF COMPUTER APPLICATIONS									
STRUCTURE 2019 -2020									
	SEM	COU	TITLE	HRS	CRE	INT	EXT	TOT	
19PA101	I	CC1	Problem Solving using C & C++	4	4	25	75	100	
19PA102		CC2	Principles of Operating System	4	4	25	75	100	
19PA103		CC3	Digital Design and Architecture	4	4	25	75	100	
19PA104L		CC4	C & C++ Lab	4	2	40	60	100	
19PA105L		CC5	Shell Programming Lab	4	2	40	60	100	
19PA106		SC1	Mathematical Foundations in Computer Science	4	4	25	75	100	
19PA107		SC2	Human Resource Management	4	4	25	75	100	
		CB	Competency Building Programme	2	-				
		<b>TOTAL</b>			<b>30</b>	<b>24</b>			<b>700</b>
19PA208	II	CC6	Programming in JAVA	4	4	25	75	100	
19PA209		CC7	Database Systems	4	4	25	75	100	
19PA210		CC8	Data Structures and Algorithm	4	4	25	75	100	
19PA211		CC9	Computer Networks	4	4	25	75	100	
19PA212L		CC10	Java Lab	4	2	40	60	100	
19PA213L		CC11	Database Lab	4	2	40	60	100	
19PA214		SC3	Statistics and Linear Programming	4	4	25	75	100	
		CB	Competency Building Programme	2	-	-	-	-	
	<b>TOTAL</b>			<b>30</b>	<b>24</b>			<b>700</b>	
19PA315	III	CC12	Scripting Languages (JavaScript, JQuery, Angular JS, Node JS)	4	4	25	75	100	
19PA316		CC13	Web Design and Development [ PHP, MYSQL, AJAX and JOOMLA)	4	4	25	75	100	
19PA317		CC14	Data Mining and Warehousing	4	4	25	75	100	
19PA318L		CC15	Scripting Lab	4	2	40	60	100	
19PA319L		CC16	Web Design Lab	4	2	40	60	100	
19PA320		SC4	Accounting and Financial Management	4	4	25	75	100	
19PA321c		EC1	Service Oriented Architecture		4	4	25	75	100
19PA321a			Computer Graphics						
19PA321b			Mobile Computing						
		CB	Competency Building Programme	2	2	100	-	100	
	<b>TOTAL</b>			<b>30</b>	<b>26</b>			<b>800</b>	

NEHRU MEMORIAL COLLEGE [AUTONOMOUS]									
MASTER OF COMPUTER APPLICATIONS									
STRUCTURE 2019 -2020									
	SEM	COU	TITLE	HRS	CRE	INT	EXT	TOT	
19PA422	IV	CC17	Game Design and Development using Python	4	4	25	75	100	
19PA423		CC18	Distributed Programming using J2EE	4	4	25	75	100	
19PA424		CC19	Software Engineering	4	4	25	75	100	
19PA425L		CC20	Game Development Lab	4	2	40	60	100	
19PA426L		CC21	J2EE Lab	4	2	40	60	100	
19PA427b		OEC	Internet of Things	4	4	25	75	100	
19PA427a			Embedded Systems						
19PA428c		EC2	Machine Learning	4	4	25	75	100	
19PA428a			Cyber Security						
19PA428b			Functional Programming						
			CS	Coding Skill	2	1	100	-	100
			<b>TOTAL</b>		<b>30</b>	<b>25</b>			<b>800</b>
19PA529	V	CC22	Mobile Application Development	4	4	25	75	100	
19PA530		CC23	.NET Programming	4	4	25	75	100	
19PA531		CC24	Compiler Design	4	4	25	75	100	
19PA532L		CC25	Mobile Application Development Lab	4	2	40	60	100	
19PA533L		CC26	.NET lab	4	2	40	60	100	
19PA534a		EC3	Cloud Computing	4	4	25	75	100	
19PA534b			Digital Image Processing						
19PA534c			Software Testing						
19PA535a		EC4	Big Data Analytics	4	4	25	75	100	
19PA535b			Computer Forensics						
19PA535c			Software Project Management						
			OC	Online Course (MOOCS)	2	1	100	-	100
		<b>TOTAL</b>		<b>30</b>	<b>25</b>		<b>33</b>	<b>800</b>	
19PA636P	VI	PW	Project Work	30	16	100	100	<b>200</b>	
	IV	IS	Internship*	-	2	100	-	<b>100</b>	
	V	MP	Mini Project*	-	2	100	-	<b>100</b>	
				<b>180</b>	<b>144</b>			<b>4200</b>	