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Criterion 1 – Curricular Aspects

Key Indicator	1.2	Academic Flexibility
Metric	1.2.2	Percentage of Programmes in which Choice Based Credit System
		(CBCS)/elective course system has been implemented (Data for the
		latest completed academic year)

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS STRUCTURE OF THE PROGRAM CLEARLY INDICATING COURSES, CREDITS/ELECTIVES

Programmes

- 1. BCA Bachelor of Computer Applications
- 2. MCA Master of Computer Applications
- 3. M.Phil

1. Curriculum Structure of the BCA Programme

$\boldsymbol{SEMESTER-I}$

				Cr	edits				Hot	ırs	
Category	Course Code	Course Title	L	T	P	Total	L	Т	P	SS	Total
AECC 1	XGL101	Communication Skills in English	2	0	0	2	2	0	0	2*	4
LANG	XGL102A / XGL102B	Ariviyal Tamil / Comprehensive English	3	0	0	3	3	0	0	0	3
CC- 1	XCA103	C Programming	4	0	1	5	4	0	2	0	6
CC- 2 (DSC - 1)	XCA104	Algebra, Calculus and Analytical Geometry	4	1	0	5	4	1	0	0	5
CC- 3	XCA105	Computer Organization and Architecture	3	2	0	5	3	2	0	0	5
UMAN 1	XUM106	Human Ethics, Values , Rights and Gender Equality	3	0	0	0	3	0	0	0	3
		Total	19	03	01	20	19	03	02	2*	26

$\boldsymbol{SEMESTER-II}$

	_	G Til		Cr	edits				Hot	ırs	
Category	Course Code	Course Title	L	Т	P	Total	L	Т	P	SS	Total
AECC 2	XGL201	English for Effective Communication	2	0	0	2	2	0	0	2*	4
AECC 3	XES202	Environmental Studies	2	0	0	2	2	0	0	1*	3
CC- 4	XCA203	Object Oriented Programming with C++	4	0	1	5	4	0	2	0	6
CC- 5 (DSC - 2)	XCA204	Discrete Mathematics	4	1	0	5	4	1	0	0	5
CC- 6	XCA205	Computer Networks	3	1	0	4	3	1	0	0	4
CC- 7	XCA206	Data Structures and Algorithms	4	0	1	5	4	0	2	0	6
		Total	19	02	02	23	19	02	04	3*	28

SEMESTER – III

	G Fill	Credits				Hours					
Category	Course Title	L	T	P	Total	L	Т	P	SS	Total	

SEC 1	XCA301	HTML and DHTML	1	0	1	2	1	0	2	0	3
CC- 8	XCA302	Database Management Systems	4	0	1	5	4	0	2	0	6
CC- 9	XCA303	Visual Programming	4	0	1	5	4	0	2	0	6
CC- 10 (DSC - 3)	XCA304	Statistical and Numerical Methods	3	2	0	5	3	2	0	0	5
GI	31	XASOE1 Elements of Aeronautics XECOE2 Entertainment Electronics and Management XMEOE1-Product Design and Development	3	0	0	3	3	0	0	0	3
UMAN 2	XUM306	Disaster Management	3	0	0	0	3	0	0	3*	3
Minor Course	XCA307	Web Technology	0	0	0	1*	0	0	0	0	15
		Total	18	02	03	20+1*	18	02	06	03*	26

SEMESTER – IV

		C T'1		C	redits	S			Hot	ırs	
Category	Course Code	Course Title	L	T	P	Total	L	Т	P	SS	Total
SEC 2	XCA401	Data Analytics	1	0	1	2	1	0	2	0	3
CC-11	XCA402	Java Programming	4	0	1	5	4	0	2	0	6
CC-12 (DSC - 4)	XCA403	Resource Management Techniques	3	2	0	5	3	2	0	0	5
CC-13	XCA404	Operating Systems	4	0	1	5	4	0	2	0	6
GI	<mark>32</mark>	XBAOE3 / Human Resource Management XCOOE1 / Practical Accounting XMAOE1 / Mathematics for Competitive Examinations I XPTOE2 / Periyar Thoughts & Services on Education and Women's Empowerment	3	0	0	3	3	0	0	0	3
Minor Cou	rse	Software Testing Tools and Practices	0	0	0	1*	0	0	0	0	15
		Total	15	02	03	20+1*	15	02	06	00	23

 $\boldsymbol{SEMESTER-V}$

Course Code	Course Title	L	Т	P	Н	С
XCA5SE	Skill Enhancement Course – III XML and Web services	2	0	2	4	3
XCA51B	Elective I Unix and Shell Programming.	3	2	2	7	5
XCA52A	Elective II – Software Engineering	4	2	0	6	5
XCA53A	Elective III - Enterprise Resource Planning	3	2	0	5	4
XCAOE*	XCO OE2 Salesmanship XMAOE1 Mathematics for Competitive Exams I XEN OE1 English Through Drama	3	0	0	3	3
	Total	15	6	4	25	20
XCA502	In Plant Training	0	0	0	0	2
XCA507	Minor Course- Software Testing Tools and Practices	0	0	0	16	1

SEMESTER - VI

Course Code	Course Title	L	Т	P	Н	С
XCA6SD	Skill Enhancement Course – IV Testing and Documentation Tool	2	0	2	4	3
XCA64C	Elective IV: .NET Technologies	3	2	2	7	5
XCA65B	Elective V : Mobile Computing	4	2	0	6	5
XCA602	Project Work	0	0	10	10	5
	Total	9	4	14	27	18
	NCC/NSS/SPORTS/RRC//YRC	0	0	0	0	1
	Minor Course- Android App Development	0	0	0	16	1
	- Mobile					
	Technology					

2.Curriculum Structure of the MCA Programme

2019 - 2020

SEMESTER-I

Course Code	Course Title	L	T	P	Н	C
YCA101	Information Technology	3	0	0	3	3
YCA102	Computer Organization and Architecture	3	2	0	5	4
YCA103	Data Structures and Algorithms	3	2	0	5	4
YCA104	Mathematical Foundations	3	2	0	5	4
YCA105	Accounting and Management Control	3	0	0	3	3
YCA106	Information Technology lab	0	0	4	4	2
YCA107	Programming Lab (C and Data Structures)	0	0	4	4	2
	Total	15	06	08	29	22

SEMESTER II

Course	Course Title	L	T	P	Н	С
Code						
YCA201	Introduction to Management Functions	3	0	0	3	3
YCA202	Operating Systems	3	2	0	5	4
YCA203	Technical English	3	2	0	5	4
YCA204	Probability and Combinatories	3	2	0	5	4
YCA205	Information System Analysis, Design and Implementation	3	0	0	3	3
YCA206	Business Programming Lab	0	0	4	4	2
YCA207	Operating systems Lab	0	0	4	4	2
	Total	15	6	08	29	22

SEMESTER-III

Course Code	Course Title	L	T	P	Н	С
YCA301	Database Management Systems	4	0	0	4	4

YCA302	Computer Communication Networks	4	0	0	4	4
YCA303	Object Oriented Programming, Analysis and Design	4	0	0	4	4
YCA304	Management Support Systems	4	0	0	4	4
YCA305	Statistical Computing	4	0	0	4	4
YCA306	Database Management Systems and Java Lab	0	0	4	4	2
YCA307	Statistical Computing Laboratory	0	0	4	4	2
	Total	20	0	08	28	24

SEMESTER- IV

Course	Course Title	L	T	P	H	C
Code						
YCA401	Network Programming	4	0	0	4	4
YCA402	Software Engineering	4	0	0	4	4
YCAEE9	Machine Learning	4	0	0	4	4
YCA403	Organizational Behaviour	3	0	0	3	3
YCABM4	Investment Technology	4	0	0	4	3
YCA405	Networks Lab	0	0	4	4	2
YCA406	Case Tools Lab	0	0	4	4	2
	Total	19	0	08	27	22

SEMESTER- V

Course	Course Name	L	T	P	H	C
Code						
YCA501	Mobile Application Development	4	0	4	8	6
YCA502	Software Project Management	4	0	4	8	6
YCA503	Entrepreneurship Development	3	0	0	3	3
YCAE54	Elective III Bigdata Analytics	3	0	0	3	3
YCAE57	Elective IV Social Network Analysis	3	0	0	3	3
YCAS51	Skill Based Elective – II Quantitative Aptitude	1	0	2	3	2
YCA510	In Plant Training	-	-	-	-	3

YCA507	Minor Course- Advanced Database Technology	0	0	0	16	1
	Total	18	0	10	28	26

SEMESTER-VI

Course Code	Course Name	L	T	P	Н	С
	Project					
YCA601	Project Work	0	0	24	24	12

M.Phil - COMPUTER SCIENCE (Full Time) CURRICULUM 2019

SEMESTER-I

Sub-Code	Sub-Name	L	Т	P	(
ZCS101	Research Methodology	4	4	0	6
ZCS102	Advanced Computing – I	4	4	0	6
ZCS103	Advanced Computing - II	4	4	0	6

Total Credits -18

SEMESTER -II

Sub-Code	Sub-Name	L	Т	P	C
ZCS201	Guide Paper	<mark>4</mark>	0	0	4
ZCS202	Teaching Learning Skills	1	2	0	2
ZCS203	Thesis / Dissertation / Project	O	O	O	1
	work				<mark>6</mark>

Total Credits -22

Total Credits: 40