THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
Sivakasi
(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC,
College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

PERCENTAGE OF SYLLABUS REVISION
2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.
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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

DEPARTMENT OF COMPUTER APPLICATIONS
MCA – MDCA:
(For those who have joined in June 2020 and later)

Total Number of Courses having changes : 15

Total Number of Courses : 22

Percentage of Revision : 68%

[MDCA11 –Operating Systems

MDCA12 -Internet Programming

MDCA13 –Web Application Development

MDCA1L1 -Internet Programming Lab

MDCA1E1/ MDCA1E2 -3D Animation Techniques /M-Commerce

MDCA21 – Resource Management Techniques

MDCA22 -Dot Net Programming

MDCA23 – Computer Networks

MDCA24 – Relational Database Management System

MDCA2L2 -Computer Networks Lab

MDCA31 – Software Engineering

MDCA32 - Android Application Development

MDCA3E1 -Data Science and Analytics

MDCA33 -Open Source Programming

MDCA3E3 -Internet of Things]

Signature of the HOD

Principal
Dr. T. Palaneeswari
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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.
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DEPARTMENT OF COMPUTER APPLICATIONS
PERCENTAGE OF SYLLABUS REVISION
M.C.A.
JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI

M.C.A – Allotment of Hours and Credits

*(for those who have joined in **June 2020** and later)*

Subject		Semester				Total No. of Credits
		I	II	III	IV	
Core and Elective Courses						
Theory	Paper I	4(4)	4(4)	4(4)	-	
	Paper II	4(4)	4(4)	4(4)	-	
	Paper III	4(4)	4(4)	4(3)	-	70
	Paper IV	3(3)	3(3)	-	-	
Practical	Lab I	5(3)	5(3)	4(3)	-	
	Lab II	4(3)	4(3)	3(2)	-	
	Project Work	-	-	-	(12)	
Elective		6(5)	6(5)	6(5) 5(5)	-	20
Total Credits		26	26	26	12	90

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI
DEPARTMENT OF COMPUTER APPLICATIONS
M.C.A Programme
(For those who have joined in 2020 and later)
OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM
PROGRAMME CODE – MDCA
PROGRAMME SCHEME

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
I		**Core Courses**						
	MDCA11	Operating Systems	4	4	3	40	60	100
	MDCA12	Internet Programming	4	4	3	40	60	100
	MDCA13	Web Application Development	4	4	3	40	60	100
	MDCA14	Data Structures and Algorithms	3	3	3	40	60	100
	MDCA1L1	Internet Programming Lab	5	3	3	50	50	100
	MDCA1L2	Web Application Development Lab	4	3	3	50	50	100
	MDCA1E1/ MDCA1E2	**Elective Course I** 3D Animation Techniques / M-Commerce	6	5	3	40	60	100
		Total	30	26				700
II	MDCA21	**Core Courses** Resource Management Techniques	4	4	3	40	60	100
	MDCA22	Dot NET Programming	4	4	3	40	60	100
	MDCA23	Computer Networks	4	4	3	40	60	100
	MDCA24	Relational Database Management System	3	3	3	40	60	100
	MDCA2L1	Dot NET Programming Lab	5	3	3	50	50	100
	MDCA2L2	Computer Networks Lab	4	3	3	50	50	100
	MD2E	**Elective Course II (Offered by other Departments)**	6	5	3	40	60	100
		Total	30	26				700

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2020 AND LATER

	Code	Title						
III	MDCA31	Software Engineering	4	4	3	40	60	100
	MDCA32	Android Application Development	4	4	3	40	60	100
	MDCA33	Open Source Programming	4	3	3	40	60	100
	MDCA3L1	Android Application Development Lab	4	3	3	50	50	100
	MDCA3L2	Software Development Lab	3	2	3	50	50	100
	MDCA3E1 / MDCA3E2	**Elective Course III** Data Science and Analytics / Soft Computing	6	5	3	40	60	100
	MDCA3E3 / MDCA3E4	**Elective Course IV** Internet of Things / Digital Image Processing	5	5	3	40	60	100
		Total	30	26				700
	Field visit/Lab visit mandatory for the course MDCA31- Software Engineering							
IV	MDCA4P	Project Work and Viva voce	-	12	-	-	100	100
		Total	-	12				100

ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
II	MDCA2E	Multimedia Systems	6	5	3	40	60	100

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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT   **1.1.2. REVISION OF SYLLABUS**

PERCENTAGE OF SYLLABUS REVISION 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2017 AND LATER

MCA – HLCA:
(For those who have joined in June 2017 and later)

Total Number of Courses having changes : 9

Total Number of Courses : 22

Percentage of Revision : 41%

[HLCA5L1-Android Application Development Lab,

HLCA31-Resource Management Techniques

HLCA3E2-Distributed Systems

HLCA41-Software Engineering

HLCA44-Computer Networks

HLCA4E3-Cloud Computing,

HLCA51- Android Application Development

HLCA52-Data Mining and Warehousing

HLCA5E4/ HLCA5E5/ HLCA5E6-Web Application Development/ Mobile Computing/ Big Data Analytics]

Signature of the HOD

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

M.C.A (*Lateral*) – Allotment of Hours and Credits

(for those who have joined in June 2017 and later)

Subject		Semester						Total No. of Credits
		I	II	III	IV	V	VI	
Core Courses								
Theory	Paper I	-	-	4(4)	4(4)	4(4)	-	70
	Paper II	-	-	4(4)	4(4)	4(4)	-	
	Paper III	-	-	4(4)	4(4)	4(3)	-	
	Paper IV	-	-	3(3)	3(3)	-	-	
Practical	Lab I	-	-	5(3)	5(3)	4(3)	-	
	Lab II	-	-	4(3)	4(3)	3(2)	-	
	Project Work	-	-	-	-	-	(12)	
Elective		-	-	6(5)	6(5)	6(5) 5(5)	-	20
Total Credits		-	-	26	26	26	12	90

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI
DEPARTMENT OF COMPUTER APPLICATIONS
M.C.A COMPUTER APPLICATIONS PROGRAMME
(For those who have joined in 2017 and later)
OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM
PROGRAMME CODE – HLCA
PROGRAMME SCHEME

Sem	Course Code	Course Title	Teaching Hours per Week	Credits	Duration of Exam (Hrs.)	Internal	External	Total
Core Courses :								
III	HLCA31	Resource Management Techniques	4	4	3	25	75	100
	HLCA32	Unix and Network Programming	4	4	3	25	75	100
	HLCA33	Dot NET Programming	4	4	3	25	75	100
	HLCA34	Principles of Compiler Design	3	3	3	25	75	100
	HLCA3E1 / HLCA3E2 / HLCA3E3	3DAnimation Techniques / Distributed Systems / Advanced Databases	6	5	3	25	75	100
	HLCA3L1	Unix and Network Programming Lab	5	3	3	40	60	100
	HLCA3L2	Dot NET Programming Lab	4	3	3	40	60	100
		Total	**30**	**26**				**700**
IV	HLCA41	Software Engineering	4	4	3	25	75	100
	HLCA42	Middleware Technologies	4	4	3	25	75	100
	HLCA43	XML and Web Services	4	4	3	25	75	100
	HLCA44	Computer Networks	3	3	3	25	75	100
	HLCA4E1 / HLCA4E2 / HLCA4E3	Digital Image Processing / Soft Computing / Cloud Computing	6	5	3	25	75	100
	HLCA4L1	Middleware Technology Lab	5	3	3	40	60	100
	HLCA4L2	XML and Web Services Lab	4	3	3	40	60	100
		Total	**30**	**26**				**700**
V	HLCA51	Android Application Development	4	4	3	25	75	100
	HLCA52	Data Mining and Warehousing	4	4	3	25	75	100
	HLCA53	Security in Computing	4	3	3	25	75	100
	HLCA5E1 / HLCA5E2 / HLCA5E3	UGC Net Preparatory Course – Computer Science / Artificial Intelligent Systems / Object Oriented Analysis & Design	6	5	2	25	75	100

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2017 AND LATER

	Code	Title						
	HLCA5E4 / HLCA5E5 / HLCA5E6	Web Application Development / Mobile Computing / Big Data Analytics	5	5	3	25	75	100
	HLCA5L1	Android Application Development Lab	4	3	3	40	60	100
	HLCA5L2	Software Development Lab	3	2	3	40	60	100
		Total	30	26				700
VI	HLCA6P	Project Work and Viva voce	-	12	-	-	100	100
		Total	-	12				100

ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
II	HLCA2E	Elective II - Multimedia Systems	6	5	3	25	75	100

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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

PERCENTAGE OF SYLLABUS REVISION 2014 AND LATER

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.
DEPARTMENT OF COMPUTER APPLICATIONS
MCA – 14PCA:
(For those who have joined in June 2014 and later)

Total Number of Courses having changes : 18

Total Number of Courses : 36

Percentage of Revision : 50%

[14PCA11-Computer Organization

14PCA12 - Discrete Structures

14PCA13 - Data Structures And Algorithms

14PCA1E1 – Graphics & Multimedia

14PCA21 –Operating Systems

14PCA22 - Internet Programming

14PCA2E - Multimedia Systems

14PCA32-Visual Programming

14PCA3L2-Visual Programming Lab

14PCA34– Principles of Compiler Design

14PCA42 – .Net Programming

14PCA44-Data communication & networking

14PCA43- Middleware Technologies

14PCA4E3 -M-Commerce

14PCA51 - Xml and Web Services

14PCA53 – Software Testing

14PCA5E1 – Object Oriented Analysis & Design/14PCA5E2 - Artificial Intelligent Systems

14PCA5E5-Advanced Databases/14PCA5E6-Android Application Development/14PCA5E7-UGC NET Prelims – Computer Science]

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

M.C.A – Allotment of Hours and Credits

(for those who have joined in **June 2014** and later)

Subject		I	II	III	IV	V	VI	Total No. of Credits
Core Courses								
Theory	Paper I	4(4)	4(4)	4(4)	4(4)	4(4)	-	
	Paper II	4(4)	4(4)	4(4)	4(4)	4(3)	-	
	Paper III	4(3)	4(3)	4(4)	4(4)	4(3)	-	
	Paper IV	3(3)	3(3)	3(3)	3(3)	-	-	110
Practical	Lab I	5(3)	5(3)	5(3)	5(3)	4(3)	-	
	Lab II	4(3)	4(3)	4(3)	4(3)	4(3)	-	
	Project Work	-	-	-	-	-	(12)	
Elective Courses								
Core Elective - Theory		6(5)	-	-	6(5)	5(5) 5(5)	-	30
Non Major Elective – Theory		-	6(5)	6(5)	-	-	-	
Total Credits		25	25	26	26	26	12	140

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

M.C.A (*Lateral entry*) – Allotment of Hours and Credits

(for those who have joined in **June 2014** and later)

Subject		Semester						Total No. of Credits
		I	II	III	IV	V	VI	
Core Courses								
Theory	Paper I	-	-	4(4)	4(4)	4(4)	-	70
	Paper II	-	-	4(4)	4(4)	4(3)	-	
	Paper III	-	-	4(4)	4(4)	4(3)	-	
	Paper IV	-	-	3(3)	3(3)	-	-	
Practical	Lab I	-	-	5(3)	5(3)	4(3)	-	
	Lab II	-	-	4(3)	4(3)	4(3)	-	
	Project Work	-	-	-	-	-	(12)	
Elective Courses								
Core Elective - Theory		-	-	-	6(5)	5(5) 5(5)	-	20
Non Major Elective – Theory		-	-	6(5)	-	-	-	
Total Credits		-	-	26	26	26	12	90

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI

DEPARTMENT OF COMPUTER APPLICATIONS
M.C.A. COMPUTER APPLICATIONS PROGRAMME
(For those who have joined in 2014 and later)
CHOICE BASED CREDIT SYSTEM
PROGRAMME CODE – 14PCA
PROGRAMME SCHEME

Sem	Course Code	Course Title	Teaching Hours per Week	Credits	Duration of Exam (Hrs.)	Marks Allotted Internal	Marks Allotted External	Marks Allotted Total
Core Courses :								
I	14PCA11	Computer Organization	4	4	3	25	75	100
	14PCA12	Discrete Structures	4	4	3	25	75	100
	14PCA13	Data Structures & Algorithms	4	3	3	25	75	100
	14PCA14	Object Oriented Programming	3	3	3	25	75	100
	14PCA1E1/ 14PCA1E2	Graphics & Multimedia / Management Information System	6	5	3	25	75	100
	14PCA1L1	Data Structures & Algorithms Lab	5	3	3	40	60	100
	14PCA1L2	C++ Programming Lab	4	3	3	40	60	100
		Total	**30**	**25**				**700**
II	14PCA21	Operating Systems	4	4	3	25	75	100
	14PCA22	Internet Programming	4	4	3	25	75	100
	14PCA23	Database Management System	4	3	3	25	75	100
	14PCA24	Microprocessors and Interfacing	3	3	3	25	75	100
	14PCA2E	Non Major Elective I - Multimedia Systems	6	5	3	25	75	100
	14PCA2L1	Internet Programming Lab	5	3	3	40	60	100
	14PCA2L2	DBMS Lab	4	3	3	40	60	100
		Total	**30**	**25**				**700**
III	14PCA31	Unix and Network Programming	4	4	3	25	75	100
	14PCA32	Visual Programming	4	4	3	25	75	100
	14PCA33	Software Engineering	4	4	3	25	75	100
	14PCA34	Principles of Compiler Design	3	3	3	25	75	100
	14PCA3E	Non Major Elective II- 3DAnimation Techniques	6	5	3	25	75	100
	14PCA3L1	Unix and Network Programming Lab	5	3	3	40	60	100
	14PCA3L2	Visual Programming Lab	4	3	3	40	60	100
		Total	**30**	**26**				**700**
IV	14PCA41	Resource Management Techniques	4	4	3	25	75	100
	14PCA42	.NET Programming	4	4	3	25	75	100
	14PCA43	Middleware Technologies	4	4	3	25	75	100
	14PCA44	Datacommunication&networking	3	3	3	25	75	100

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DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

M.C.A.

JUNE 2014 AND LATER

Sem	Code	Course Title						
	14PCA4E1/ 14PCA4E2/ 14PCA4E3	Digital Image Processing / Soft Computing / M-Commerce	6	5	3	25	75	100
	14PCA4L1	Middleware Technology Lab	5	3	3	40	60	100
	14PCA4L2	.NET Programming Lab	4	3	3	40	60	100
		Total	30	26				700
V	14PCA51	XML and Web Services	4	4	3	25	75	100
	14PCA52	Data Mining and Warehousing	4	3	3	25	75	100
	14PCA53	Software Testing	4	3	3	25	75	100
	14PCA5E1/ 14PCA5E2/ 14PCA5E3	Object Oriented Analysis & Design / Artificial Intelligent Systems / Software Project Management	5	5	3	25	75	100
	14PCA5E4/ 14PCA5E5/ 14PCA5E6/ 14PCA5E7	Computer Security/ Advanced Databases/ Android Application Development/ UGC NET Prelims – Computer Science	6	5	2 1/2	25	75	100
	14PCA5L1	XML and Web Services Lab	4	3	3	40	60	100
	14PCA5L2	Software Development Lab	3	3	3	40	60	100
		Total	30	26				700
VI	14PCA6P	Project Work and Viva voce	-	12	-	-	100	100
		Total	-	12				100

ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
II	14PCA2E	Non Major Elective I - Multimedia Systems	6	5	3	25	75	100

T. Palaneswai

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