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.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.
DEPARTMENT OF COMPUTER APPLICATIONS
BCA – BDCA:
(For those who have joined in June 2020 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	2
3.	Part III	14
4.	Part IV	7
Total		**27**

Total Number of Courses having changes : 27

Total Number of Courses : 44

Percentage of Revision : 61%

[BDCA11 – Programming in C

BDCA1L2 – Office Automation Lab

BDCA1A – Mathematical Foundations

BDCA2A – Data Structures and Algorithms

BDCA3A – Web Designing

BDCA3AL – Web Designing Lab

BDCA4A – Software Engineering

BDCA5L2 – Web Technology Lab

BDCA5V – Internship/On-The Job Training

BDCA5N – Web Designing

BDCA61 – Android Programming

BDCA62 – Big Data Analytics

BDCA6L – Android Programming Lab

BDCA4N – Multimedia Systems

BDJO62 – Graphics And Animation

BDJO62L – Graphics And Animation Lab

BDCA5E1/ BDCA5E2 – Dot Net Programming/Computer Security

BDCA5E3- Web Technology]

Signature of the HOD

Principal
geeswari
PRINCIPAL
The Standard Fireworks
Rajaratnam College

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,

College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI
BCA– Allotment of Hours and Credits
(for those who have joined in 2020 and later)

Courses			I	II	III	IV	V	VI	Total No.of Credits
Language Courses									
Part I - Tamil			6(3)	6(3)	6(3)	6(3)	-	-	12
Part II - English Language Course			6(3)	6(3)	6(3)	6(3)	-	-	12
Part III – Major, Major elective and Allied Courses									
Major	Theory	Course I	4(4)	4(4)	4(4)	4(4)	5(5)	5(5)	
		Course II	-	-	4(4)	-	-	4(4)	
	Practical	Lab I	5(4)	5(3)	4(3)	4(3)	5(3)	5(4)	
		Lab II	2(1)	-	-	-	5(3)	-	
		Internship / On-The-Job Training					- (1)		
		Project	-	-	-	-	-	6(4)	
Major Elective	Theory	Course I	-	-	-	-	5(5)	5(5)	
		Course II	-	-	-	-	5(4)	-	
Allied	Theory		5(5)	5(5)	3(3)	3(3)	-	-	
	Practical		-	-	3(2)	3(2)	-	-	
Total No. of Credits			14	12	16	12	21	22	97
Part-IV Ability Enhancement Courses									
Value Added Courses									
1) Environmental Studies			2(2)	-	-	-	-	-	
2) Value Education & Gender Studies			-	2(2)	-	-	-	-	
Non Major Elective Courses									
1) NME I			-	-	-	2(2)	-	-	
2) NME II			-	-	-	-	2(2)	-	
Skill Based Courses									
1) Computer Literacy			-	2(2)	-	-	-	-	
2) Discipline Specific Course			-	-	-	2(2)	-	-	
3) Career Guidance			-	-	-	-	2(2)	-	
4) Self Employment / Job Oriented Courses – Theory			-	-	-	-	-	2(2)	
5) Self Employment/ Job Oriented Courses – Practical / Project			-	-	-	-	-	2(2)	
Library and Information Science			-	-	- -	-	1(*)	1(*)	
Total			2	4	-	4	4	4	18
Part-V: Social Awareness Programme and Physical Education									
Social Service League / Youth Red Cross/ Red Ribbon Club / Environment Club / Citizen Consumer Club / Extension Activities Cell / Physical Education / National Cadet Corps / National Service Scheme			1(*)	1(1)	-	-	-	-	1
Total Credits									140

T-Palaveesi
PRINCIPAL
Palaneeswari
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI.

Signature of the HOD

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,

College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2020 AND LATER

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

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester I								
Part I	BDGT11/ BDGH11/ BDGF11	சங்க இலக்கியமும் உரைநடையும்/ Hindi Language Course – I / French Language Course – I	6	3	3	40	60	100
Part II	BDGE11	English for Communication-I	6	3	3	40	60	100
Part III	BDCA11	**Major Courses** Programming in C	4	4	3	40	60	100
	BDCA1L1	C Programming Lab	5	4	3	50	50	100
	BDCA1L2	Office automation Lab	2	1	3	50	50	100
	BDCA1A	**Allied Courses** Mathematical Foundations	5	5	3	40	60	100
Part IV	BDES11	**Value Added Course** Environmental studies	2	2	2	40	60	100
		Total	30	22				700
Semester II								
Part I	BDGT21/ BDGH21/ BDGF21	அறஇலக்கியமும் தன்முன்னேற்றக் கட்டுரைகளும் / Hindi Language Course -II / French Language Course – II	6	3	3	40	60	100
Part II	BDGE21	English for Communication-II	6	3	3	40	60	100
Part III	BDCA21	**Major Courses** Object Oriented Programming with C++	4	4	3	40	60	100
	BDCA2L	C++ Programming Lab	5	3	3	50	50	100
	BDCA2A	**Allied Courses** Data Structures and Algorithms	5	5	3	40	60	100
Part IV	BDVG21	**Value Added Course** Value Education & Gender Studies	2	2	2	40	60	100
	BDCL21	**Skill Based Course** Computer Installation & Servicing	2	2	2	40	60	100
Part V	BDSA2	**Social Awareness Programme and Physical Education**	-	1	-	-	-	100
		Total	30	23				800

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS
PERCENTAGE OF SYLLABUS REVISION
B.C.A.
JUNE 2020 AND LATER

Semester III

	Code	Title						
Part I	BDGT31/ BDGH31/ BDGF31	சமய இலக்கியமும் நாடகமும் / Hindi Language Course –III / French Language Course – III	6	3	3	40	60	100
Part II	BDGE31	English for Enrichment-I	6	3	3	40	60	100
Part III	BDCA31	**Major Courses** Programming in Java	4	4	3	40	60	100
	BDCA32	Operating Systems	4	4	3	40	60	100
	BDCA3L	Java Programming Lab	4	3	3	50	50	100
	BDCA3A	**Allied Courses** Web Designing	3	3	3	40	60	100
	BDCA3AL	Web Designing Lab	3	2	3	50	50	100
		Total	30	22				700

Semester IV

	Code	Title						
Part I	BDGT41/ BDGH41/ BDGF41	கவிதை இலக்கியமும் சிறுகதையும் / Hindi Language Course -IV/ French Language Course – IV	6	3	3	40	60	100
Part II	BDGE41	English for Enrichment-II	6	3	3	40	60	100
Part III	BDCA41	**Major Courses** Database Management System	4	4	3	40	60	100
	BDCA4L	DBMS Lab	4	3	3	50	50	100
	BDCA4A	**Allied Course** Software Engineering	3	3	3	40	60	100
	BDCA4AL	Animation Technology Lab	3	2	3	50	50	100
Part IV	BD4N	**Non Major Elective Course**	2	2	2	40	60	100
	BDCA4DSL	**Skill Based Course** Discipline Specific Course DTP Lab	2	2	3	50	50	100
		Total	30	22				800

Field visit/Lab visit mandatory for the course BDCA4A - Software Engineering

Semester V

	Code	Title						
Part III	BDCA51	**Major Courses** Computer Networks	5	5	3	40	60	100
	BDCA5L1	Dot NET Programming Lab	5	3	3	50	50	100
	BDCA5L2	Web Technology Lab	5	3	3	50	50	100
	BDCA5V	Internship / On-The -Job Training	-	1	-	-	100	100
	BDCA5E1 / BDCA5E2	**Major Elective Courses** Dot Net Programming / Computer Security	5	5	3	40	60	100
	BDCA5E3 / BDCA5E4	Web Technology / Cloud Computing	5	4	3	40	60	100
Part IV	BDCG51	**Skill Based Course** Career Guidance	2	2	2	40	60	100
	BD5N	**Non Major Elective Course**	2	2	2	40	60	100
	-	Library and Information Science	1	-	-	-	-	-
		Total	30	25				800

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2020 AND LATER

Semester VI								
Part III	BDCA61	**Major Courses** Android Programming	5	5	3	40	60	100
	BDCA62	Big Data Analytics	4	4	3	40	60	100
	BDCA6L	Android Programming Lab	5	4	3	50	50	100
	BDCA6P	Project Work	6	4	3	-	100	100
	BDCA6E1 / BDCA6E2	**Major Elective Course** Statistical Methods / Operations Research	5	5	3	40	60	100
Part IV	BDSE/ BDJO	**Skill Based Courses (Open to all)** Self Employment/ Job Oriented courses – **Theory**	2	2	2	40	60	100
	BDSE/ BDJO	Self Employment/ Job Oriented courses – **Practical**	2	2	3	50	50	100
	-	Library and Information Science	1	-	-	-	-	-
		Total	30	26				700

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,

College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2020 AND LATER

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

COURSES OFFERED FOR OTHER MAJOR STUDENTS

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester IV								
Part IV	BDCA4N	Non Major Elective Course Multimedia Systems	2	2	2	40	60	100
Semester V								
Part IV	BDCA5N	Non Major Elective Course Web Designing	2	2	2	40	60	100
Semester VI								
Part IV	BDJO62	Skill Based Courses (Open to all) Job Oriented Courses Graphics and Animation	2	2	2	40	60	100
	BDJO62L	Graphics and Animation Lab	2	2	3	50	50	100

Extra Credit Course (Open to All)

Course Code	Course Title	Total Contact Hours	Credits	Duration of Exam (Hours)	Marks Allotted		
					Internal	External	Total
BDCAEC1L	Office Automation Lab	2	2	3	50	50	100
BDCAEC2L	Mobile Application Development Lab	2	2	3	50	50	100
BDCAEC3L	Open Source Programming Lab	2	2	3	50	50	100
BDCAEC4L	Statistical Analysis Lab	2	2	3	50	50	100
BDCAEC5L	AngularJS Lab	2	2	3	50	50	100

T. Palaneesi

PRINCIPAL

Dr. T. Palaneeswari
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI.

SIGNATURE OF THE HOD

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 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.
DEPARTMENT OF COMPUTER APPLICATIONS
BCA – GLCA:
(For those who have joined in June 2017 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	10
4.	Part IV	4
	Total	22

Total Number of Courses having changes : 22

Total Number of Courses : 43

Percentage of Revision : 51%

[GLCA2A-Computer Oriented Numerical Methods

GLCA41-Database Management Systems

GLCA3A-Visual Programming

GLCA3AL-Visual Programming Lab

GLCA3N-Animation Software

GLCA4DSL-Command Line Interface Lab

GLCA5L2-Animation Technology Lab

GLCA5E1/ GLCA5E2/ GLCA5E3-Web Technology/Computer Security/Computer Graphics

GLCA5E4/GLCA5E5/ GLCA5E6-Cloud Computing/Introduction to Data Mining/ Embedded Systems

GLCA62-Dot Net Programming

GLCA6L-Dot Net Programming Lab

GLCA6E2/ GLCA6E3-Statistical Methods/ Graph Theory]

Signature of the HOD

Principal
Dr. T. Palaneeswari
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI.

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,

College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI
B.C.A – Allotment of Hours and Credits
(for those who join in June 2017 and later)

Courses			Semester I	II	III	IV	V	VI	Total No. of Credits
Language Courses									
Part I- Tamil/Hindi/French/ Alternate Course			6(3)	6(3)	6(3)	6(3)	-	-	24
Part II - English Language Course			6(3)	6(3)	6(3)	6(3)	-	-	
Part III - Major and Allied Courses									
Major	Theory	Course I	5(5)	4(4)	4(4)	4(4)	5(5)	5(5)	
		Course II	-	-	3(3)	-	5(5)	4(4)	
		Course III	-	-	-	-	5(5)	5(5)	
	Practical	Lab I	6(4)	5(3)	3(2)	4(3)	5(3)	5(4)	
		Lab II	-	-	-	-	5(3)	-	
		Project	-	-	-	-	-	6(4)	
Allied	Theory	Course I	5(5)	5(5)	3(3)	3(3)	-	-	
	Practical	Lab I	-	-	3(2)	3(2)	-	-	
Total			14	12	14	12	21	22	95
Part IV – Value Added/ Non–Major/Skill based Courses									
Value Added Courses									
Peace Education			2(2)	-	-	-	-	-	
Environmental Studies			-	2(2)	-	-	-	-	
Non–Major Courses									
i) NME–I			-	-	2(2)	-	-	-	
ii) NME – II			-	-	-	2(2)	-	-	
Skill based Courses									
1) Computer Literacy			-	2(2)	-	-	-	-	
2) Discipline Specific Course			-	-	-	2(2)	-	-	
3) Career Guidance and Subject Viva			-	-	-	-	2(2)	-	
4) Women Studies			-	-	-	-	2(2)	-	
5) Self Employment / Job Oriented Courses – Theory			-	-	-	-	-	2(2)	
6) Self Employment / Job Oriented Courses – Practical / Field work / Project			-	-	-	-	-	2(2)	
Library and Information Science			-	-	-	-	1(*)	1(*)	
Total No. of Credits			2	4	2	4	4	4	20
Part V- Extension Activities–Physical Education & Social Awareness Programme									
NSS/NCC/Physical Education/ Extension Activities/Youth Red Cross/ Social Service League/Red Ribbon Club/Citizen Consumer Club/Environmental Club			(*)	(1)	-	-	-	-	1
Total Credits									140

T. Palaneeswari
Dr. T. Palaneeswari
PRINCIPAL
The Standard Fireworks

Signature of the HOD

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,

College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2017 AND LATER

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

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted Internal	Marks Allotted External	Marks Allotted Total
Semester I								
Part I	GLGT11/ GLGH11/ GLGF11	சங்க இலக்கியமும் உரைநடையும் / Hindi Language Course – I / French Language Course - I	6	3	3	25	75	100
Part II	GLEN11	Communicative English-I	6	3	3	25	75	100
Part III	GLCA11	Programming with C	5	5	3	25	75	100
	GLCA1A	Digital Circuits	5	5	3	25	75	100
	GLCA1L	C Programming Lab	6	4	3	40	60	100
Part IV	GLPE11	Peace Education	2	2	2	25	75	100
		Total	**30**					
Semester II								
Part I	GLGT21/ GLGH21/ GLGF21	காப்பிய இலக்கியமும் புதினமும் / Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100
Part II	GLEN21	Communicative English-II	6	3	3	25	75	100
Part III	GLCA21	Object Oriented Programming with C++	4	4	3	25	75	100
	GLCA2A	Computer Oriented Numerical Methods	5	5	3	25	75	100
	GLCA2L	C++ Programming Lab	5	3	3	40	60	100
Part IV	GLES21	Value Added Course Environmental studies	2	2	2	25	75	100
	GLCL21	Value Added Course Computer Installation & Servicing	2	2	2	25	75	100
Part V	-	Extension Activities – Physical Education and Social Awareness Programme		1				100
		Total	**30**					
Semester III								
Part I	GLGT31/ GLGH31/ GLGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course –III / French Language Course - III	6	3	3	25	75	100
Part II	GLEN31	Communicative English-III	6	3	3	25	75	100
Part III	GLCA31	Data Structures and Algorithms	4	4	3	25	75	100
	GLCA32	Programming in Java	3	3	3	25	75	100
	GLCA3A	Visual Programming	3	3	3	25	75	100
	GLCA3L	Java Programming Lab	3	2	3	40	60	100
	GLCA3AL	Visual Programming Lab	3	2	3	40	60	100
Part IV	GLNM	Non Major Elective I	2	2	2	25	75	100
		Total	**30**					
Semester IV								
Part I	GLGT41/ GLGH41/ GLGF41	கவிதை இலக்கியமும் சிறுகதையும் / Hindi Language Course -IV/ French Language Course - IV	6	3	3	25	75	100
Part II	GLEN41	Communicative English-IV	6	3	3	25	75	100
Part III	GLCA41	Database Management Systems	4	4	3	25	75	100

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS
PERCENTAGE OF SYLLABUS REVISION
B.C.A.
JUNE 2017 AND LATER

	GLCA4A	Operating Systems	3	3	3	25	75	100
	GLCA4L	DBMS Lab	4	3	3	40	60	100
	GLCA4AL	DTP Lab	3	2	3	40	60	100
Part IV	GLNM	Non Major Elective II	2	2	2	25	75	100
	GLCA4DSL	Command Line Interface Lab	2	2	3	40	60	100
		Total	30					
Semester V								
	GLCA51	Software Engineering	5	5	3	25	75	100
Part III	GLCA5E1/ GLCA5E2/ GLCA5E3	Web Technology/ Computer Security/ Computer Graphics	5	5	3	25	75	100
	GLCA5E4/ GLCA5E5/ GLCA5E6	Cloud Computing / Introduction to Data Mining/ Embedded Systems	5	5	3	25	75	100
	GLCA5L1	Web Technology Lab	5	3	3	40	60	100
	GLCA5L2	Animation Technology Lab	5	3	3	40	60	100
Part IV	GLGV51	**Value Added Course** Career Guidance and Subject Viva	2	2	2	25	75	100
	GLWS51	**Value Added Course** Women Studies	2	2	2	25	75	100
		Total	29					
Semester VI								
	GLCA61	Computer Networks	5	5	3	25	75	100
	GLCA62	Dot NET Programming	4	4	3	25	75	100
Part III	GLCA6E1/ GLCA6E2 / GLCA6E3	Operations Research / Statistical Methods / Graph Theory	5	5	3	25	75	100
	GLCA6L	Dot NET Programming Lab	5	4	3	40	60	100
	GLCA6P	Project Work	6	4	3	-	100	100
Part IV	GLSE/ GLJO	**Skill Based Courses (Open to all)** Self Employment/ Job Oriented courses – **Theory**	2	2	2	25	75	100
	GLSE/ GLJO	Self-Employment/ Job Oriented courses – **Practical**	2	2	3	40	60	100
		Total	29					

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS
PERCENTAGE OF SYLLABUS REVISION
B.C.A.
JUNE 2017 AND LATER

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

COURSES OFFERED FOR OTHER MAJOR STUDENTS

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester III								
Part IV	GLCA3N	**Non Major Elective Course** Animation Software	2	2	2	25	75	100
Semester IV								
Part IV	GLCA4N	**Non Major Elective Course** Web Designing	2	2	2	25	75	100
Semester VI								
Part IV	GLJO62	**Skill Based Courses (Open to all)** **Self Employment Courses / JOC** Android Application Development	2	2	2	25	75	100
	GLJO62L	Android Application Development Lab	2	2	3	40	60	100

Extra Credit Course (Open to All)

Course Code	Course Title	Total Contact Hours	Credits	Duration of Exam (Hours)	Marks Allotted		
					Internal	External	Total
GLCAEC1L	Office Automation Lab	2	2	3	40	60	100
GLCAEC2L	Image Design using Photoshop Lab	2	2	3	40	60	100
GLCAEC3	Introduction to Python Programming	2	2	3	25	75	100
GLCAEC3L	Python Programming Lab	2	2	3	40	60	100
GLCAEC4L	Mobile Application Development Lab	2	2	3	40	60	100
GLCAEC5L	Open Source Programming Lab	2	2	3	40	60	100
GLCAEC6L	Statistical Analysis using MATLAB	2	2	3	40	60	100

T-Palaneeswari
PRINCIPAL
T. Palaneeswari
PRINCIPAL
Standard Firework-
ratnam College
or Women,
SIVAKASI.

SIGNATURE OF THE HOD

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 2014 AND LATER

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2014 AND LATER

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

S.No.	Components	Number of courses having changes
1.	Part I	2
2.	Part II	2
3.	Part III	5
4.	Part IV	4
	Total	**13**

Total Number of Courses having changes   : 13

Total Number of Courses   : 41

Percentage of Revision   : 32%

[14UCA11 - Programming with C

14UCA1AL - C and Office Automation Lab

14UCA33 – Programming in JAVA

14UCA61 – Computer Networks

14UCA6E1 - Cloud Computing,

14UCA3N - Animation Software

14UJO62 - Android Application Development,

14UJO62L - Android Application Development Lab]

Signature of the HOD

Principal
PRINCIPAL
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

B.C.A – Allotment of Hours and Credits

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

Courses			I	II	III	IV	V	VI	Total No. of Credits
Language Courses									
Part I- Tamil/Hindi/French/ Alternate Course			6(3)	6(3)	-	-	-	-	12
Part II - English Language Course			6(3)	6(3)	-	-	-	-	
Part III - Core and Allied Courses									
Major	Theory	Course I	5(5)	4(3)	4(3)	5(4)	4(4)	4(4)	
		Course II	5(4)	4(3)	5(4)	5(4)	**5(5)**	5(4)	
		Course III	-	-	4(3)		**5(5)**	**5(5)**	
	Practical	Lab I	-	-	5(3)	6(4)	6(4)	5(3)	
		Lab II	-	-	5(3)	5(3)	5(3)	-	
		Project	-	-	-	-	-	6(4)	
Allied	Theory	Course I	-	-	5(5)	5(5)	-	-	
	Practical	Lab 1	6(5)	6(5)	-	-	-	-	
Total			14	11	21	20	21	20	107
Part IV – Non – Major Courses/ Value Added Courses									
Peace Education			2(2)	-	-	-	-	-	
Environmental Studies			-	2(2)	-	-	-	-	
i) NME–I			-	-	2(2)	-	-	-	
ii) NME – II			-	-	-	2(2)	-	-	
1) Computer Literacy			-	2(2)	-	-	-	-	
2) Soft Skill Enhancement			-	-	-	2(2)	-	-	
3) Career Guidance and Subject Viva			-	-	-	-	2(2)	-	
4) Women Studies			-	-	-	-	2(2)	-	
5) Self Employment / Job Oriented Courses – Theory			-	-	-	-	-	2(2)	
6) Self Employment / Job Oriented Courses – Practical / Field work / Project			-	-	-	-	-	2(2)	
Library and Information Science			-	-	-	-	1(*)	1(*)	
Total			2	4	2	4	4	4	20
Part V- Extension Activities—Physical Education & Social Awareness Programme									
NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League/ Red Ribbon Club			* (*)	*(1)	-	-	-	-	1
Total Credits									140

Dr. T. Palaneeswari
PRINCIPAL
The Standard Firewo~
Rajaratnam College
for Women,
SIVAKASI.

Signature of the HOD

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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,

College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2014 AND LATER

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

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

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Internal	External	Total
						Marks Allotted		
Semester I								
Part I	14UGT11/ 14UGH11/ 14UGF11	தற்கால இலக்கியம் / Hindi Language Course – I / French Language Course - I	6	3	3	25	75	100
Part II	14UGE11	Communicative English-I	6	3	3	25	75	100
Part III	14UCA11	Programming with C	5	5	3	25	75	100
	14UCA12	Digital Circuits And Design	5	4	3	25	75	100
	14UCA1AL	C and Office Automation Lab	6	5	3	40	60	100
Part IV	14UPE11	Peace Education	2	2	2	25	75	100
		Total	**30**					
Semester II								
Part I	14UGT21/ 14UGH21/ 14UGF21	பக்தி இலக்கியம் / Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100
Part II	14UGE21	Communicative English-II	6	3	3	25	75	100
Part III	14UCA21	Object Oriented Programming	4	3	3	25	75	100
	14UCA22	Data Structures and Algorithms	4	3	3	25	75	100
	14UCA2AL	C++ and Data Structures Lab	6	5	3	40	60	100
Part IV	14UES21	**Value Added Course** Environmental studies	2	2	2	25	75	100
	14UCL21	**Value Added Course** Computer Installation & Servicing	2	2	2	25	75	100
Part V	–	Extension Activities – Physical Education and Social Awareness Programme		1				100
		Total	**30**					
Semester III								
Part III	14UCA31	Operating Systems	4	3	3	25	75	100
	14UCA32	Visual Programming	5	4	3	25	75	100
	14UCA33	Programming in Java	4	3	3	25	75	100
	14UCA3A	Accountancy and Costing	5	5	3	25	75	100
	14UCA3L1	Visual Programming Lab	5	3	3	40	60	100
	14UCA3L2	Java Programming Lab	5	3	3	40	60	100
Part IV	14UNM	Non Major Elective I	2	2	2	25	75	100
		Total	**30**					
Semester IV								
Part III	14UCA41	Database Management Systems	5	4	3	25	75	100
	14UCA42	Graphics and Multimedia	5	4	3	25	75	100
	14UCA4A	Discrete Mathematics	5	5	3	25	75	100
	14UCA4L1	DBMS Lab	6	4	3	40	60	100
	14UCA4L2	Graphics Lab	5	3	3	40	60	100
Part IV	14UNM	Non Major Elective II	2	2	2	25	75	100

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2014 AND LATER

	14USK41	Soft Skill Enhancement	2	2	-	40	60	100
		Total	**30**					
Semester V								
Part III	14UCA51	Software Engineering	4	4	3	25	75	100
	14UCA5E1 / 14UCA5E2	Web Technology / Computer Security	5	5	3	25	75	100
	14UCA5E3 / 14UCA5E4	Operations Research / Numerical Methods	5	5	3	25	75	100
	14UCA5L1	Web Technology Lab	6	4	3	40	60	100
	14UCA5L2	Animation Technology Lab	5	3	3	40	60	100
Part IV	14UGV51/ 15UGV51	**Value Added Course** Career Guidance and Subject Viva	2	2	2	25	75	100
	14UWS51	**Value Added Course** Women Studies	2	2	2	25	75	100
		Total	**29**					
Semester VI								
Part III	14UCA61	Computer Networks	4	4	3	25	75	100
	14UCA62	.NET Programming	5	4	3	25	75	100
	14UCA6E1 / 14UCA6E2	Cloud Computing / Microprocessors and Interfacing	5	5	3	25	75	100
	14UCA6L	.NET Programming Lab	5	3	3	40	60	100
	14UCA6P	Project Work	6	4	3	-	100	100
Part IV	14USE/ 14UJO	**Skill Based Courses (Open to all)** Self Employment/ Job Oriented courses – **Theory**	2	2	2	25	75	100
	14USEL/ 14UJOL	Self Employment/ Job Oriented courses – **Practical**	2	2	3	40	60	100
		Total	**29**					

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.
(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF COMPUTER APPLICATIONS

PERCENTAGE OF SYLLABUS REVISION

B.C.A.

JUNE 2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI
DEPARTMENT OF COMPUTER APPLICATIONS
COURSES OFFERED FOR OTHER MAJOR STUDENTS

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester III								
Part IV	14UCA3N	**Non Major Elective Course** Animation Software	2	2	3	25	75	100
Semester IV								
Part IV	14UCA4N	**Non Major Elective Course** Web Designing	2	2	3	25	75	100
Semester VI								
Part IV	14UJO62	**Skill Based Courses (Open to all)** Self Employment Courses / JOC Android Application Development	2	2	3	25	75	100
	14UJO62L	Android Application Development Lab	2	2	3	40	60	100

Extra Credit Course (Open to All)

Course Code	Course Title	Total Contact Hours	Credits	Duration of Exam (Hours)	Marks Allotted		
					Internal	External	Total
14UCAEC1	Office Automation	2	2	3	25	75	100
14UCAEC2	Photoshop & 3D Studiomax	2	2	3	25	75	100

T. Palaneeswari

PRINCIPAL
Dr. T. Palaneeswari
PRINCIPAL
The Standard Firework
Rajaratnam College
for Women,
SIVAKASI.

SIGNATURE OF THE HOD