

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



(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 MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI. SIVAKASI. DEPARTMENT OF MICROBIOLOGY B.SC MICROBIOLOGY – MDMB

(For those who have joined in June 2020 and later)

Total Number of Courses having changes:22Total Number of Courses: 23Percentage of Revision: 95.6%

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Dr. T. Palanceswari PRINCIPAL The Standard Standards'

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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY 2020 AND LATED

2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, (AUTONOMOUS) SIVAKASI M.Sc Microbiology- Allotment of Hours and Credits (for those who joined in 2020 and later)

Subjects	I	II	III	IV	Total
	Semester	Semester	Semester	Semester	Credits
Core courses:				~	
Paper I	5 (4)	5 (4)	5 (4)	6 (5)	70
Paper II	5(4)	5(4)	5(4)	6 (5)	-
Paper III	5(4)	5(4)	5(4)	-	-
Lab I	6(3)	6(3)	6(3)	6 (4)	-
Lab II	3 (2)	3 (2)	3(2)	-	
Project and Viva	-	-	-	6 (5)	-
Voce					
Total	24(17)	24(17)	24(17)	24 (19)	-
Electives:	6(5)	6(5)	6(5)	6(5)	20
Total	30 (22)	30 (22)	30 (22)	30 (24)	90

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T.P.lauesci Signature of Principal Dr. T. Palańeeswart PRINCIPAL The Standard Fireworks Rajaratnam College for Women, SIVAKASI.



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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI (For those who have joined in 2020 and later) M.Sc. Microbiology Programme Scheme

ter				lits			rks Alle	otted
Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Internal	External	Total
	MDMB11	Core Courses Bacteriology	5	4.	3	40	60	100
	MDMB12	Chemistry of Biomolecules	5	4	3	40	60	100
	MDMB13	Essentials of Biotechnology	5	4	3	40	60	100
I	MDMB1L1	Practical I	6	3	3	50	50	100
	MDMB1L2	Practical II	3	2	3	50	50	100
	MDMB1E1/ MDMB1E2	Elective Course I Developmental Biology/ Bioinstrumentation	6	5	3	40	60	100
		Total	30	22	÷			600
	MDMB21	Core Courses Clinical Immunology	5	4	3	40	60	100
	MDMB22	Intermediary Metabolism	5	4	3	40	60	100
	MDMB23	Fermentation Technology	5	4	3	40	60	100
n	MDMB2L1	Practical III	6	3	3	50	50	100
	MDMB2L2	Practical IV	3	2	3	50	50	100
	MDMB2E	Elective Course II (Offered by other Departments) Bio fertilizer	6	5	3	40	60	100
		Total	30	22				600
Field	visit mandatory	for the course- MDMB2L2						
	MDMB31	Core Courses Aquatic Microbiology	5	4	3	40	60	100
	MDMB32	Microbial Genetics & Molecular Biology	5	4	3	40	60	100
100	MDMB33	Agro-technology	5	4	3	40	60	100
m	MDMB3L1	Practical V	6	3	3	50	50	100
	MDMB3L2	Practical VI	3	2	3	50	50	100
	MDMB3E1/ MDMB3E2	Elective Course III Ecology &Bioremediation / Food Process Technology	6	5	3	40	60	100
		Total	30	22				600
	MDMB41	Diagnostic Microbiology	6	5	3	40	60	100
IV	MDMB42	Computational Biology	6	5	3	40	60	100
	MDMB4L	Practical VII	6	4	5	50	50	100



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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2020 AND LATER

MDMB4E1/ MDMB4E2	Elective Course IV Research Methodology & Biostatistics/ Genomics & Proteomics	6	5	3	40	60	100
MDMB4P	Project and viva voce	6	5				100
	Total	30	24				500

5.5.8 Signature of HOD

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



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

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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



(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 MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY 2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI. DEPARTMENT OF MICROBIOLOGY M.SC MICROBIOLOGY – HLMB (For those who have joined in June 2017 and later)

Total Number of Courses having changes :10

Total Number of Courses	: 20
Percentage of Revision	: 50%

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T. Palemersi Signature of the Principal Dr. T. Palaneeswari PRINCIPAL The Standard Firework-Rajaratnam College for Women, SIVAKASI.



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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, (AUTONOMOUS) SIVAKASI M.Sc Microbiology- Allotment of Hours and Credits (for those who joined in 2017 and later)

Subjects	I II		III	IV	Total
	Semester	Semester	Semester	Semester	Credits
Core courses:		194 A. S.			
Paper I	6 (5)	6 (5)	6 (5)	6 (5)	
Paper II	6 (4)	6 (4)	6 (4)	6 (5)	
Paper III	6 (4)	6 (4)	6 (4)		
Lab	6 (4)	6 (4)	6 (4)	6 (4)	
Project and Viva Voce	-	-		6 (5)	
Total	24(17)	24(17)	24(17)	24 (19)	70
Electives:	6(5)	6(5)	6(5)	6(5)	20
Total	30 (22)	30 (22)	30 (22)	30 (24)	90

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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2017 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI

(For those who have joined in 2017 and later) M.Sc. Microbiology Programme Scheme

ster			Teaching	dits	Duration	Marl	ks Allo	tted
Semester	Course Code	Course Title of the Paper	Hours Per Week	Cree	of Exam (Hours)	Internal	External	Total
I	HLMB11	Core Course General Microbiology	6	5	3	25	75	100
	HLMB12	Biochemistry	. 6	4	3	25	75	100
	HLMB13	Fundamentals of Biotechnology	6	4	3	25	75	100
	HLMB1L	Major Practical I	6	4	6	40	60	100
	HLMB1E1/ HLMB1E2	Core Elective course Biostatistics/ Bioinstrumentation	6	5	3	25	75	100
		Total	30	22				500
	HLMB21	Core Courses Immunology and Immunotechniques	6	5	3	25	75	100
	HLMB22	Fermentation Technology	6	4	3	25	75	100
п	HLMB23	Food & Dairy Microbiology	6	4	3	25	75	100
	HLMB2L	Major Practical II	6	4	6	40	60	100
	HLMB2E	Elective Course II (Offered by other Departments) Bio fertilizer	Paper Hours $\frac{5}{5}$ Duration $\frac{1}{4}$ <t< td=""><td>75</td><td>100</td></t<>	75	100			
		Total	30	22				500
	HLMB31	Core Course Agri & Environmental Microbiology	6	5	3	25	75	100
ш	HLMB32	Microbial Genetics & Molecular Biology	6	4	3	25	75	10
п	HLMB33	Microbial Physiology	6	4	3	25	75	10



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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2017 AND LATER

-	HLMB3L	Major Practical III	6	4	6	40	60	100
	HLMB3E1/ HLMB3E2	Core Elective course CSIR-UGC NET Preparatory course- Life Sciences/ Food Process Technology	6	5	3	25	75	100
		Total	30	22				500
	HLMB41	Core Course Clinical Microbiology	6	5	3	25	75	100
_	HLMB42	Bioinformatics	6	5	3	25	75	100
IV	HLMB4L	Major Practical IV	6	4	6	40	60	100
.,	HLMB4E1/ HLMB4E2	Core Elective course Research Methodology / Genomics and Proteomics	6	5	3	25	75	100
	HLMB4P	Project and viva voce	6	5	-	-	100	100
		Total	30	24				500

Signature of HOD

T-Palaness: Signature of Principal

Dr. T. Palaneeswari PRINCIPAL The Standard Firewerks Rajaratnam College for Women, SIVAKASL



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

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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



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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY 2014 AND LATER

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

M.SC BIOTECHNOLOGY – PROGRAMME CODE: (For those who have joined in June 2014 and later)

PROGRAMME OF BIOTECHNOLOGYCHANGE TO MICROBIOLOGY

Total Number of Courses having changes : 23

Total Number of Courses : 23

Percentage of Revision : 100%

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Signature of the HOD

T. Palaneessi

Signature of the Principal PRINCIPAL The Standard Fireworks Rajaratnam College for Women, SIVAKASL



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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2014 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, (AUTONOMOUS) SIVAKASI M.Sc Microbiology- Allotment of Hours and Credits

(for those who joined in 2014 and later)

Subject	Semester							
	I	п	ш	IV	Total Credits			
Paper I	4(4)	4(4)	4(4)	-				
Paper II	4(4)	4(4)	4(4)	-	1			
Paper III	4(4)	4(4)	3(3)	-	55			
Paper IV	4(4)	4(4)	-	-	1			
Practical I	4(2)	4(2)	4(2)	-	-			
Practical II	4(2)	4(2)	4(2)	-	1			
Project	-	-	-	30(15)	15			
Total								
Elective:					1			
Core Electives	6(5)	-	5(5)	-				
Non Major Electives	-	6(5)	6(5)		20			
Total Credits								

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DEPARTMENT OF MICROBIOLOGY PERCENTAGE OF SYLLABUS REVISION M.SC MICROBIOLOGY

2014 AND LATER

The Standard Fireworks Rajaratnam College for Women, Sivakasi (Autonomous) (Affiliated to Madurai Kamaraj University, Reaccredited with 'A' Grade by NAAC and College with Potential for Excellence by UGC) DEPARTMENT OF MICROBIOLOGY

PG PROGRAMME (for those who joined 2014 and later)

					f	Marks allotted		
Semester	Course Code	Title of the Paper	Teaching	Credits	Duration of Exam (hrs)	Duration Exam (hrs) Internal External		Total
		Core Courses						
	14PMB11	General Microbiology	4	4	3	25	75	100
I	14PMB12	Biochemistry	4	4	3	25	75	100
	14PMB13	MB13 Microbial Physiology		4	3	25	75	100
	14PMB14	4PMB14 Fundamentals of Immunology		4	3	25	75	100
	14PMB1EA	Elective I	6	5	3	25	75	100
	14PMB1L1	Practical I	4	2	3	40	60	100
	14PMB1L2	Practical II	4	2	3	40	60	100
	14PMB21	Fermentation Technology	4	4	3	25	75	100
	14PMB22	Food and Dairy Microbiology	4	4	3	25	75	100
	14PMB23	Agri & Environmental Microbiology	4	4	3	25	75	100
Π	14PMB24	Fundamentals of Biotechnology	4	4	3	25	75	100
	14PMB2E	Elective II (Bio-waste Management)	6	5	3	25	75	100
	14PMB2L1	Practical III	4	2	3	40	60	100
	14PMB2L2	Practical IV	4	2	3	40	60	100
	14PMB31	Clinical Microbiology		4	3	25	75	100
	14PMB32	Bioinformatics	4	4	3	25	75	100
ш	14PMB33	Microbial Genetics & Molecular Biology	3	3	3	25	75	100
	14PMB3E	Elective III- (Food Process Technology)	6	5	3	25	75	10
	14PMB3EB	Elective IV	5	5	3	25	75	10
	14PMB3L1	Practical V	4	2	3	40	60	100
	14PMB3L2	Practical VI	4	2	3	40	60	10
IV	14PMB4P	Major Project Work & Viva Voce	-	15			100	100
		Core Electives (Any	One)			·		70
I	14PMB1E1	Biostatistics and Research Methodology	6	5	3	25	75	100
	14PMB1E2	Bioinstrumentation	6	5	3	25	75	100
III	14PMB3E1	CSIR-UGC National Eligibility Test (NET) LIFE SCIENCES	5	5	3	25	75	10
	14PMB3E2	Genomics & Proteomics	5	5	3	25	75	100
			Tot al	90				