



**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 MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2020 AND LATER**

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

**DEPARTMENT OF MATHEMATICS  
M.SC MATHEMATICS – PROGRAMME CODE: MDMT  
(For those who have joined in June 2020 and later)**

Total Number of Courses having changes :3

Total Number of Courses :22

Percentage of Revision :13.6

  
Signature of the HOD with Seal

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

  
Principal

**PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI**



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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
M.Sc. MATHEMATICS  
JUNE 2020 AND LATER**

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

**DEPARTMENT OF MATHEMATICS**

**M.Sc Mathematics**

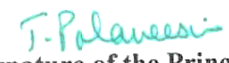
**Code: MDMT**

**June 2020 and later**

S.No	Semester	Course Code	Course Title
1.	II	MDMT24	Advanced Graph Theory
2.	III	MDMT34	Integral Equations
3.	III	MDMT3E1	Number Theory & Research Ethics

  
**Signature of the HOD**

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

  
**Signature of the Principal**  
**PRINCIPAL**  
The Standard Fireworks  
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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS  
JUNE 2020 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN(AUTONOMOUS),  
SIVAKASI.  
DEPARTMENT OF MATHEMATICS  
M.Sc. Mathematics - Allotment of Hours and Credits  
(For those who have joined in June 2020 and later)**

Subjects	I Semester	II Semester	III Semester	IV Semester	Total Credits
<b>Core and Elective Courses</b>					
Paper I	6(4)	6(4)	6(4)	6 (5)	-
Paper II	6(4)	6(4)	4(4)	6 (5)	-
Paper III	4(4)	6(4)	6(4)	6(5)	-
Paper IV	6(4)	6(4)	6(4)	-	-
Lab	2(1)	-	2(1)	-	-
Project & viva voce	-	-	-	6(5)	-
<b>Total</b>	<b>24(17)</b>	<b>24(16)</b>	<b>24(17)</b>	<b>24(20)</b>	<b>70</b>
<b>Elective Courses</b>	<b>6(5)</b>	<b>6(5)</b>	<b>6(5)</b>	<b>6(5)</b>	<b>20</b>
<b>Total</b>	<b>30(22)</b>	<b>30 (21)</b>	<b>30(22)</b>	<b>30 (25)</b>	<b>90</b>

*T. Palanivel*  
Principal

**PRINCIPAL**  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*S. Subramanian*  
Head of the Department



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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2020 AND LATER**

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

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
I	MDMT11	<b>Core Courses</b> Algebra I	6	4	3	40	60	100
	MDMT12	Real Analysis I	6	4	3	40	60	100
	MDMT13	Operations Research	4	4	3	40	60	100
	MDMT14	Differential Equations	6	4	3	40	60	100
	MDMT1L	Operations Research Lab	2	1	3	50	50	100
	MDMT1E1/ MDMT1E2	<b>Elective Course I</b> Mathematical Modelling / Combinatorial Mathematics	6	5	3	40	60	100
<b>Total</b>			<b>30</b>	<b>22</b>	<b>--</b>	<b>-</b>	<b>-</b>	<b>600</b>
II	MDMT21	<b>Core Courses</b> Algebra II	6	4	3	40	60	100
	MDMT22	Real Analysis II	6	4	3	40	60	100
	MDMT23	Topology	6	4	3	40	60	100
	MDMT24	Advanced Graph Theory	6	4	3	40	60	100
	MD2E	<b>Elective Course II (Offered for other Major Students)</b>	6	5	3	40	60	100
<b>Total</b>			<b>30</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500</b>
III	MDMT31	<b>Core Courses</b> Algebra III	6	4	3	40	60	100
	MDMT32	Advanced Numerical Methods	4	4	3	40	60	100
	MDMT33	Functional Analysis I	6	4	3	40	60	100
	MDMT34	Integral Equations	6	4	3	40	60	100
	MDMT3L	Advanced Numerical Methods Lab	2	1	3	50	50	100
	MDMT3E1/ MDMT3E2	<b>Elective Course III</b> Number Theory & Research Ethics / Advanced Analysis	6	5	3	40	60	100
<b>Total</b>			<b>30</b>	<b>22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600</b>
Field visit is mandatory for the course MDMT32 –Advanced Numerical Methods (Preparatory work for data analysis)								
IV	MDMT41	<b>Core Courses</b> Fuzzy Algebra	6	5	3	40	60	100
	MDMT42	Complex Analysis	6	5	3	40	60	100
	MDMT43	Mathematical Statistics	6	5	3	40	60	100



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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2020 AND LATER**

MDMT4E1/ MDMT4E2	<b>Elective Course IV</b> Functional Analysis II / Advanced Topology	6	5	3	40	60	100
MDMT4P	Project and Viva Voce	6	5	-	-	100	100
<b>Total</b>		<b>30</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500</b>

**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	MDMT2E	Optimization Techniques	6	5	3	40	60	100

*T. Polaveni*  
Principal

PRINCIPAL  
The Standard Fireworks  
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*S. Subbiah*  
Head of the Department



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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),  
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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2017 AND LATER**

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

**DEPARTMENT OF MATHEMATICS  
M.SC MATHEMATICS – PROGRAMME CODE: HLMT  
(For those who have joined in June 2017 and later)**

Total Number of Courses having changes	:5
Total Number of Courses	:23
Percentage of Revision	:21.7

**Signature of the HOD with Seal**

**Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.**

*T. Palavesi*  
**Principal**  
**PRINCIPAL**  
**The Standard Fireworks**  
**Rajaratnam College**  
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**SIVAKASI**





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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS  
JUNE 2017 AND LATER**

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

**DEPARTMENT OF MATHEMATICS**

**M.Sc Mathematics**

**Code: HLMT**

**June 2017 and later**

S.No	Semester	Course Code	Course Title
1.	I	HLMT12	Analysis I
2.	II	HLMT22	Analysis II
3.	II	HLMT24	Graph theory
4.	IV	HLMT41	Fuzzy Algebra
5	IV	HLMT42	Complex Analysis

  
**Signature of the HOD**

Head of the Dept. of Mathematics,  
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College for Women, Sivakasi.

  
**Signature of the Principal  
PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
M.Sc. MATHEMATICS  
JUNE 2017 AND LATER**

*The Standard Fireworks Rajaratnam College for women, Sivakasi.*

**M.Sc. Mathematics - Allotment of hours and credits  
(For those who joined in June 2017 and later)**

Subjects	I Semester	II Semester	III Semester	IV Semester	Total Credits
<b>Core Courses</b>					
Paper I	6(4)	6(4)	6(4)	6 (5)	
Paper II	6(4)	6(4)	4(4)	6 (5)	
Paper III	4(4)	6(4)	6(4)	6(5)	
Paper IV	6(4)	6(4)	6(4)	-	
Lab	2(1)	-	2(1)	-	
Project	-	-	-	6(5)	
<b>Total</b>	<b>24(17)</b>	<b>24(16)</b>	<b>24(17)</b>	<b>24(20)</b>	<b>70</b>
<b>Electives</b>					
Electives	6(5)	6(5)	6(5)	6(5)	<b>20</b>
<b>Total Credits</b>					<b>90</b>

*J. Palaniappan*  
Principal  
PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*D. Subudra*  
Head of the Department



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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2017 AND LATER**

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

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
I	HLMT11	Core Courses Algebra I	6	4	3	25	75	100
	HLMT12	Analysis I	6	4	3	25	75	100
	HLMT13	Operations Research	4	4	3	25	75	100
	HLMT13L	Operations Research Lab	2	1	3	40	60	100
	HLMT14	Differential Equations	6	4	3	25	75	100
	HLMT1E1/ HLMT1E2	Elective Course I Mathematical Modelling / Number theory	6	5	3	25	75	100
<b>Total</b>			<b>30</b>	<b>22</b>				<b>600</b>
II	HLMT21	Core Courses Algebra II	6	4	3	25	75	100
	HLMT22	Analysis II	6	4	3	25	75	100
	HLMT23	Topology	6	4	3	25	75	100
	HLMT24	Graph theory	6	4	3	25	75	100
	HLMT2E	Elective Course II (Offered for other Major Students)	6	5	3	25	75	100
<b>Total</b>			<b>30</b>	<b>21</b>				<b>600</b>
III	HLMT31	Core Courses Theory of Fields	6	4	3	25	75	100
	HLMT32	Advanced Numerical Methods	4	4	3	25	75	100
	HLMT32L	Advanced Numerical Methods Lab	2	1	3	40	60	100
	HLMT33	Functional Analysis I	6	4	3	25	75	100
	HLMT34	Advanced Topology	6	4	3	25	75	100
	HLMT3E1/ HLMT3E2	Elective Course III CSIR-UGC-NET-PRELIMS- MATHEMATICS/ Advanced Analysis	6	5	2	25	75	100
<b>Total</b>			<b>30</b>	<b>22</b>				<b>600</b>



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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2017 AND LATER**

IV	HLMT41	Core Courses Fuzzy Algebra	6	5	3	25	75	100
	HLMT42	Complex Analysis	6	5	3	25	75	100
	HLMT43	Probability and Statistics	6	5	3	25	75	100
	HLMT4E1/ HLMT4E2	Elective Course IV Functional Analysis II / Combinatorial Mathematics	6	5	3	25	75	100
	HLMT4P	Project and Viva voce	6	5	-	-	100	100
<b>Total</b>			<b>30</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>500</b>

**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	HLMT2E	Quantitative Techniques	6	5	3	25	75	100

*T. Palavesi*  
Principal

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*S. Subramanian*  
Head of the Department



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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**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2014 AND LATER**

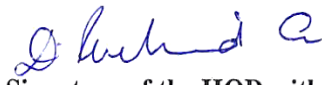
**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
SIVAKASI.**

**DEPARTMENT OF MATHEMATICS  
M.SC MATHEMATICS – PROGRAMME CODE: 14PMT  
(For those who have joined in June 2014 and later)**


Total Number of Courses having changes :4

Total Number of Courses :22

Percentage of Revision :18%

  
Signature of the HOD with Seal

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi

  
Principal  
PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI



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**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2014 AND LATER**

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

**DEPARTMENT OF MATHEMATICS**

**M.Sc Mathematics**

**Code: 14PMT**

**June 2014 and later**

S.No	Semester	Course Code	Course Title
1.	II	14PMT24	Statistical Techniques
2.	III	14PMT32L	Advanced Numerical Methods Lab
3.	III	14PMT34	Advanced Topology
4.	III	14PMT3E1	CSIR-UGC-NET-PRELIMS-

**Signature of the HOD**

**Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Siva'**

**Signature of the Principal  
PRINCIPAL  
The Standard Fireworks  
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PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2014 AND LATER**

**The Standard Fireworks Rajaratnam College for women, Sivakasi.  
M.Sc. Mathematics - Allotment of hours and credits  
(For those who joined in June 2014 and later)**

Subjects	I Semester	II Semester	III Semester	IV Semester	Total Credits
<b>Core Courses</b>					
Paper I	6(4)	6(4)	6(4)	6 (5)	
Paper II	6(4)	6(4)	4(4)	6 (5)	
Paper III	4(4)	6(4)	6(4)	6(5)	
Paper IV	6(4)	6(4)	6(4)	-	
Lab	2(1)	-	2(1)	-	
Project	-	-	-	6(5)	
<b>Total</b>	<b>24(17)</b>	<b>24(16)</b>	<b>24(17)</b>	<b>24(20)</b>	<b>70</b>
<b>Electives</b>					
Core Electives	6(5)			6(5)	<b>20</b>
Non Major Electives		6(5)	6(5)		
<b>Total Credits</b>					<b>90</b>

*P. Palavesan*  
Principal

PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
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SIVAKASI

*G. Venkatesh*  
Head of the Department



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PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2014 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
DEPARTMENT OF MATHEMATICS  
M.Sc. MATHEMATICS  
(For those who have joined in 2014 and later)  
CHOICE BASED CREDIT SYSTEM  
PROGRAMME CODE – 14PMT  
PROGRAMME SCHEME**

Semester	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam (Hours)	Marks Allotted		
						Internal	External	Total
I	14PMT11	Algebra I	6	4	3	25	75	100
	14PMT12	Principles of Analysis	6	4	3	25	75	100
	14PMT13	Operations Research	4	4	3	25	75	100
	14PMT13L	Operations Research Lab	2	1	3	40	60	100
	14PMT14	Differential Equations	6	4	3	25	75	100
	14PMT1E1/ 14PMT1E2/14 PMT1E3	<b>Elective Course I</b> Fuzzy Theory and its applications /Advanced Analysis / Number theory	6	5	3	25	75	100
<b>Total</b>			<b>30</b>	<b>22</b>				<b>600</b>
II	14PMT21	Algebra II	6	4	3	25	75	100
	14PMT22	Advanced Graph theory	6	4	3	25	75	100
	14PMT23	Topology	6	4	3	25	75	100
	14PMT24	Statistical Techniques	6	4	3	25	75	100
	14PMT2E	<b>Elective Course II (Offered by other Departments)</b>	6	5	3	25	75	100
<b>Total</b>			<b>30</b>	<b>21</b>				<b>600</b>
III	14PMT31	Theory of Fields	6	4	3	25	75	100
	14PMT32	Advanced Numerical Methods	4	4	3	25	75	100
	14PMT32L	Advanced Numerical Methods Lab	2	1	3	40	60	100
	14PMT33	Functional Analysis I	6	4	3	25	75	100
	14PMT34	Advanced Topology	6	4	3	25	75	100
	14PMT3E1	<b>Elective Course III</b> CSIR-UGC-NET-PRELIMS-MATHEMATICS/ Advanced Analysis	6	5	2	25	75	100
<b>Total</b>			<b>30</b>	<b>22</b>				<b>600</b>
IV	14PMT41	Commutative Algebra	6	5	3	25	75	100
	14PMT42	Number theory and Cryptography	6	5	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 MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.Sc. MATHEMATICS**

**JUNE 2014 AND LATER**

	14PMT43	<b>Functional Analysis II</b>	6	5	3	25	75	100
	14PMT4E2/14 PMT4E3	<b>Elective Course III</b> Combinatorial Mathematics/ Coding Theory	6	5	3	25	75	100
	14PMT4P	Project	6	5	-	-	100	100
		<b>Total</b>	<b>30</b>	<b>24</b>				<b>500</b>

**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	14PMT2E/ 15PMT2E	Numerical Methods and Solutions	6	5	3	25	75	100

T. Palavesi  
Principal  
PRINCIPAL  
Standard Fireworks  
Rajaratnam College  
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*S. Kulidra*  
Head of the Department