

**FATIMA COLLEGE(AUTONOMOUS)**

Re-Accredited with "A++" by NAAC (Cycle-IV)

**DEPARTMENT OF MATHEMATICS-SF**

**CRASH COURSE**

**2022-2023**

**About the course**

- Syllabus is fully focused on  
“ Quantitative Aptitude ”.
- Young aspirants for competitive  
exams and campus placement

**VALUE ADDED COURSE**

**CONCRETE MATHEMATICS**

Welcome all to register in this  
course

**9360617598**

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Total Hours: 30  
Wednesday & Friday

## VALUE ADDED CERTIFICATE COURSE

PROGRAMME CODE	COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
USMA	22UGVACG1	CONCRETE MATHEMATICS	Lecture	4	2

### **COURSE OUTCOME:**

At the end of the course, the students will be able to

**CO1:** Solve problems on numbers, ages and trains

**CO2:** Illustrate profit and loss with examples

**CO3:** Explain partnership and related problems

**CO4:** Discuss problems on time and work

**CO5:** Solve problems on time and distances

### **UNIT I: PROBLEMS ON NUMBERS, AGES AND TRAINS**

Divisibility rules- LCM& HCF-unit digit-Arithmetic &Geometric Progression- Problems on ages-Problems on two trains moving on same direction-Problems on two trains moving on opposite direction.

### **UNIT II: PIPES AND CISTERNS**

Problems on pipes & cisterns - shortcuts.

### **UNIT III: PROFIT AND LOSS**

Profit and Loss: Cost Price – Selling Price – Profit or Gain – Loss – Gain percentage - Loss percentage.

### **UNIT IV: PARTNERSHIP**

Partnership – Ratio of Division of Gains – Working and Sleeping Partners.

### **UNIT V: TIME & WORK AND TIME & DISTANCE**

Time and Work: Important facts and formulae on time and work -Problems.

Time and Distance: Important facts and formulae on speed, time and distance – Problems.

### **Text Book:**



R. S. Agarwal , Quantitative Aptitude for Competitive Examinations,  
S. Chand & Company Ltd, Revised Edition 2008.

**Forwarded by:**

1.Ms.P.Dhana Priya



**(Dr. E. Helena)**

**HOD's**

**Signature & Name**











# FATIMA COLLEGE

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*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

## DEPARTMENT OF MATHEMATICS(SF)

### Value added Courses - Course Teacher Name list

S. No.	Course Title with Course Code	Course Teacher	No. of Hours Taken
1.	Concrete Mathematics 22UGVACG1	Ms. P. Dhanapriya	30

Signature of the HOD with Seal



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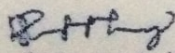
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MARY LAND, MADURAI- 625 018

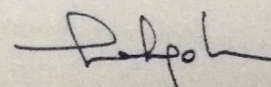
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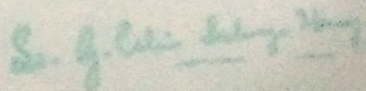
This is to certify that Ms. SNEHA . N -----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
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Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal



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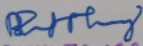
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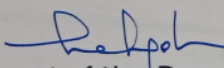
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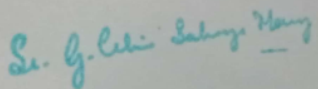
This is to certify that Ms. HEMBAPATHI : C-----  
has successfully completed the Value Added Crash Course on

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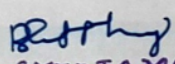
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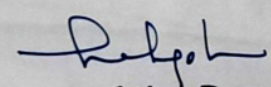
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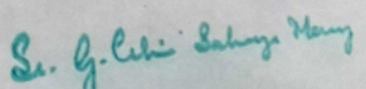
This is to certify that Ms. Viji . E-----  
has successfully completed the Value Added Crash Course on

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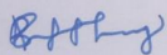
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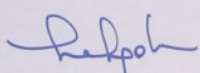
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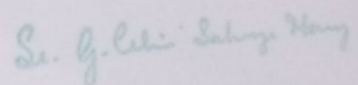
This is to certify that Ms. SWETHA . S -----  
has successfully completed the Value Added Crash Course on

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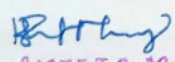
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MARY LAND, MADURAI - 625 018

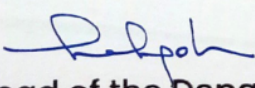
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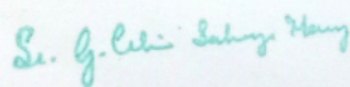
This is to certify that Ms. JEGADEESHWARI . B-----  
has successfully completed the Value Added Crash Course on

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Head of the Department

  
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This is to certify that Ms. RINTHIYA . K  
has successfully completed the Value Added Crash Course on

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awarded ~~Distinction~~ / ~~First~~ / <sup>✓</sup>Second class.

*R. R. Smeeta Mary*  
R. R. SMEETA MARY  
Co-ordinator

*Rajesh*  
Head of the Department

*Dr. Sr. G. Celine Sahaya Mary*  
Dr. Sr. G.Celine Sahaya Mary  
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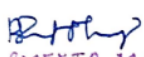
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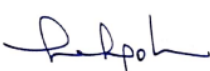
## DEPARTMENT OF MATHEMATICS(SF)

This is to certify that Ms. VARSHINI.M-----  
has successfully completed the Value Added Crash Course on

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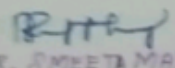
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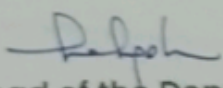
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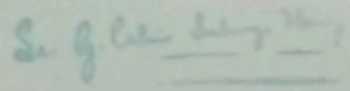
This is to certify that Ms. KISHA PENNI. J.  
has successfully completed the Value Added Crash Course of

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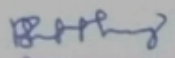
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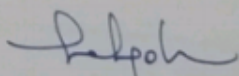
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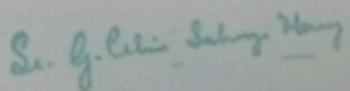
This is to certify that Ms. YUVA DHARSHINI. M-----  
has successfully completed the Value Added Crash Course on

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DY. R. SMEETA MARY  
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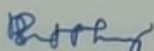
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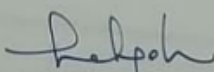
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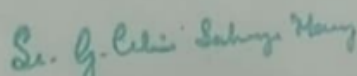
This is to certify that Ms. SUMITHRA.M-----  
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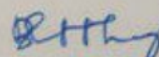
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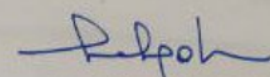
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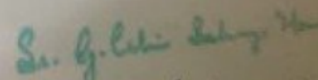
This is to certify that Ms. ASHURUTHI. M  
has successfully completed the Value Added Crash Course on

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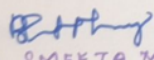
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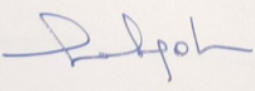
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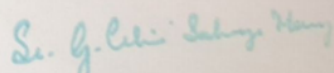
This is to certify that Ms. Priya Dhansini P.S -----  
has successfully completed the Value Added Crash Course on

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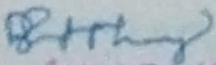
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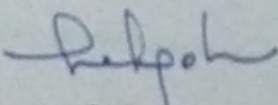
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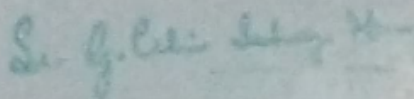
This is to certify that Ms. LAKSHMI.S-----  
has successfully completed the Value Added Crash Course on

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This is to certify that Ms. NASREEN NILOPHER J-----  
has successfully completed the Value Added Crash Course on

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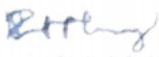
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This is to certify that Ms. MICHONA SUBRIVA A-----  
has successfully completed the Value Added Crash Course on

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Co-ordinator

  
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This is to certify that Ms. SYED ASHMITHA.H  
has successfully completed the Value Added Crash Course on

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This is to certify that Ms. NANDHINI K  
has successfully completed the Value Added Crash Course on

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*Dr. R. Smitheeta Mary*  
Dr. R. Smitheeta Mary  
Co-ordinator

*[Signature]*  
Head of the Department

*Dr. Sr. G. Celine Sahaya Mary*  
Dr. Sr. G. Celine Sahaya Mary  
Principal



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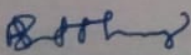
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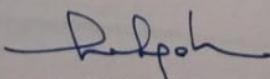
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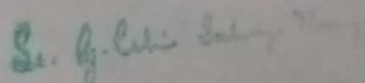
This is to certify that Ms. DURGADevi.V  
has successfully completed the Value Added Crash Course on

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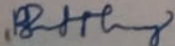
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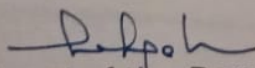
## DEPARTMENT OF MATHEMATICS (SF)

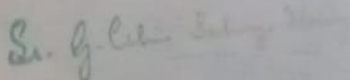
This is to certify that Ms. RITHIKA M.S-----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

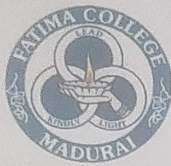
during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

  
DR. R. SATEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal





# FATIMA COLLEGE (AUTONOMOUS)

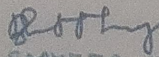
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RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI- 625 018

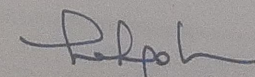
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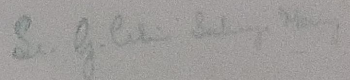
This is to certify that Ms. HARINI. N  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / <sup>✓</sup>Second class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal





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## DEPARTMENT OF MATHEMATICS (SF)

This is to certify that Ms. GLADIES REGININAL  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

*Dr. R. STEETA MARY*  
Co-ordinator

*Dr. P. S. S. S. S.*  
Head of the Department

*Dr. Sr. G. Celine Sahaya Mary*  
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## DEPARTMENT OF MATHEMATICS(SF)

This is to certify that Ms. JOICE JERSHA MARY J.B  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

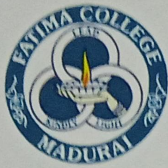
during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

*R. Smeeta Mary*  
Dr. R. SMEETA MARY  
Co-ordinator

*[Signature]*  
Head of the Department

*[Signature]*  
Dr. Sr. G.Celine Sahaya Mary  
Principal





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## DEPARTMENT OF MATHEMATICS (SF)

This is to certify that Ms. BACKIYA LAKSHMI . K -----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

*R. Smeeta Mary*  
Dr. R. SMEETA MARY

Co-ordinator

*R. Smeeta Mary*

Head of the Department

*G. Celine Sahaya Mary*

Dr. Sr. G. Celine Sahaya Mary

Principal



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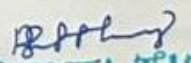
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MARY LAND, MADURAI - 625 018

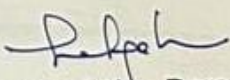
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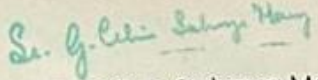
This is to certify that Ms. ANGEL RIFANA.S  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

  
Dr. R. SIMEETA MARY  
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Head of the Department

  
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## DEPARTMENT OF MATHEMATICS(SF)

This is to certify that Ms. PHARANI. P  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

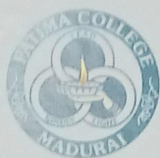
during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

*Dr. R. Smeeta Mary*  
DR. R. SMEETA MARY  
Co-ordinator

*Dr. P. P. P.*  
Head of the Department

*Dr. Sr. G. Celine Sahaya Mary*  
Dr. Sr. G. Celine Sahaya Mary  
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## DEPARTMENT OF MATHEMATICS(SF)

This is to certify that Ms. ADARNA. P  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / ~~Second class~~.

*Dr. R. Smeeta Mary*  
Dr. R. SMEETA MARY  
Co-ordinator

*[Signature]*  
Head of the Department

*Dr. Sr. G. Celine Sahaya Mary*  
Dr. Sr. G.Celine Sahaya Mary  
Principal



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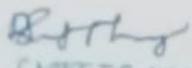
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MARY LAND, MADURAI - 625 018

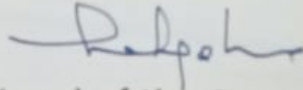
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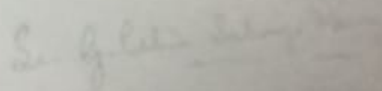
This is to certify that Ms. HEMA LAKSHMI. S  
has successfully completed the Value Added Crash Course on

### CONCRETE MATHEMATICS

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awarded Distinction / First / Second class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal



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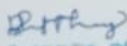
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MARY LAND, MADURAI- 625 018

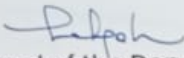
## DEPARTMENT OF MATHEMATICS(SF)


This is to certify that Ms. KAVITHARASHINI.T  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
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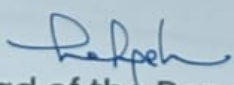
## DEPARTMENT OF MATHEMATICS(SF)

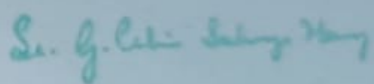
This is to certify that Ms. JAYAMSHIVAM SHANGARI - K -----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded ~~Distinction~~ / First / Second class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
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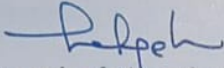
## DEPARTMENT OF MATHEMATICS(SF)

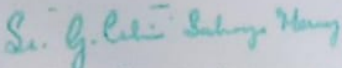
This is to certify that Ms. KARTHIGA . N  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First- / <sup>✓</sup>Second class.

  
Dr. R. Smeet Mary  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G.Celine Sahaya Mary  
Principal



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RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI- 625 018

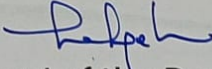
## DEPARTMENT OF MATHEMATICS(SF)

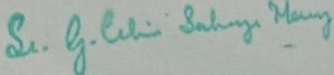
This is to certify that Ms. VISHNU PRIYA . M  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

  
DR. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal





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RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI - 625 018

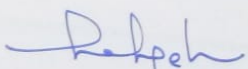
## DEPARTMENT OF MATHEMATICS (SF)


This is to certify that Ms. RUBADHARSHINI V-----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal





# FATIMA COLLEGE (AUTONOMOUS)

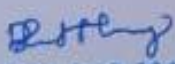
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RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI- 625 018

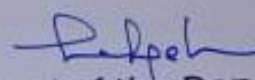
## DEPARTMENT OF MATHEMATICS(SF)

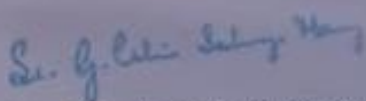
This is to certify that Ms. SONASHREE R  
has successfully completed the Value Added Crash Course on

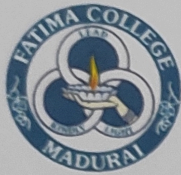
## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
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Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G. Celine Sahaya Mary  
Principal



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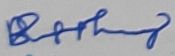
AFFILIATED TO MADURAI KAMARAJ UNIVERSITY  
RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI- 625 018

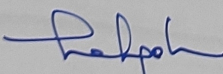
## DEPARTMENT OF MATHEMATICS(SF)

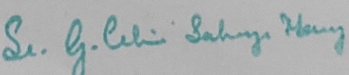
This is to certify that Ms. AJITHA . S  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded ~~Distinction~~ / First / ~~Second~~-class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G.Celine Sahaya Mary  
Principal





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RE-ACCREDITED WITH 'A++' BY NAAC(CYCLE-IV)  
MARY LAND, MADURAI - 625 018

## DEPARTMENT OF MATHEMATICS(SF)

This is to certify that Ms. -- SYLA MEERA . R -----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

*Dr. R. Smeeta Mary*  
Co-ordinator

*Dr. S. G. Celine Sahaya Mary*  
Head of the Department

*Dr. S. G. Celine Sahaya Mary*  
Principal





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RE-ACCREDITED WITH 'A++' BY NAAC (CYCLE-IV)  
MARY LAND, MADURAI- 625 018

## DEPARTMENT OF MATHEMATICS(SF)


This is to certify that Ms. VARSHINI.V-----  
has successfully completed the Value Added Crash Course on

## CONCRETE MATHEMATICS

during the academic year 2022-2023 and has been  
awarded Distinction / First / Second class.

  
Dr. R. SMEETA MARY  
Co-ordinator

  
Head of the Department

  
Dr. Sr. G.Celine Sahaya Mary  
Principal