

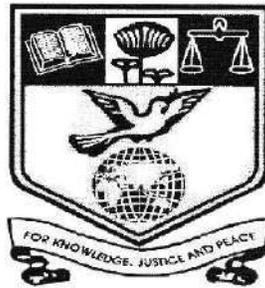
**NEHRU MEMORIAL COLLEGE (Autonomous)  
(Nationally accredited with A grade by NAAC)  
PUTHANAMPATTI**

**PG & RESEARCH DEPARTMENT OF MATHEMATICS**

**VALUE ADDED COURSE**

**UG - EXTRA CREDIT COURSE  
STRUCTURE & SYLLABI  
(CBCS)**

**(For the candidates admitted from 2015-2016 onwards)**



**NEHRU MEMORIAL COLLEGE (Autonomous), PUTHANMPATTI**  
**Under Graduate Programme Course Structure CBCS**  
**(For the candidates admitted from 2015-2016 onwards)**

<b>COURSES</b>	<b>NO. OF COURSES</b>	<b>NO. INST. HRS.</b>	<b>MAX. CREDITS</b>	<b>REMARKS</b>
EXTRA CREDIT	6	30 Hrs / Course	12	I - VI SEMESTER

<b>SEM</b>	<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>HRS / WEEK</b>	<b>CREDITS</b>	<b>TOTAL MARKS</b>
<b>I-VI</b>	15EXCI	EXC I -LATEX LAB	2	2	100
	15EXCII	EXC II- MATHEMATICS FOR COMPETITATIVE EXAM	2	2	100
	15EXCIII	EXC III - MATHEMATICAL LOGIC	2	2	100
	15EXCIV	EXC IV - GIMP LAB	2	2	100
	15EXCV	EXC V - GROUP PROJECT	2	2	100
	15EXCVI	EXC VI - CASE STUDY ON OR	2	2	100

## OBE ELEMENTS

### Programme Educational Objectives (PEO)

**PEO 1:** To qualify the students to become successful professionals by demonstrating logical and analytical thinking abilities.

**PEO 2:** To provide knowledge in the breadth and depth of mathematics, including the connections between different areas of mathematics.

**PEO 3:** Gain experience investigating the real world problems and learn how to apply mathematical ideas and models to those problems.

**PEO 4:** Analyze the use of computer technology to solve problems and to promote understanding.

### Program Outcome (PO)

**PO 1:** Become knowledgeable in the subject of Mathematics and apply the principles of the same to the needs of the Employer/Institution/Enterprise/Society.

**PO 2:** Gain analytical skills in the field of Mathematics

**PO 3:** Understand and appreciate professional ethics, community living and Nation Building initiatives.

**PO 4:** To develop important analytical and logical skills and problem solving strategies to assess a broad range of issues in real life.

**PO 5:** To expose a wide range of modern mathematical ideas from pure and applied mathematics to graduate with both technical and quantitative skills that are in demand in the modern world.

**PO 6:** To acquire mathematical knowledge and understanding in advanced areas of mathematics from the given courses that provides a solid foundation for future learning.

### Programme Specific Outcome (PSO)

**PSO 1:** Apply the knowledge of Mathematics in the domain of Science, Engineering and Technology

**PSO 2:** Solve the complex problems in the field of mathematics with an understanding of the societal, legal and cultural impacts of the solution.

**PSO 3 :**Familiar with a variety of examples where mathematics helps accurately explain abstract or physical phenomena.

**PSO 4 :** Able to independently read mathematical literature of various types, including survey articles, scholarly books, and online sources.

**PSO 5 :** Life-long learners who are able to independently expand their mathematical expertise when needed, or for interest's sake.

**PSO 6 :** Recognize the importance and value of mathematical and statistical thinking, training and approach to problem solving, on a diverse variety of disciplines.

<b>Course Code &amp; Title</b>	<b>15EXCII</b> <b>EXC II – Mathematics for Competitive Examinations</b> <b>(Value added Course)</b>		
<b>B.Sc. Mathematics</b>	<b>Semester : II</b>	<b>Credits : 2</b>	<b>Hrs/ Wk : 2</b>
<b>Cognitive Level</b>	<b>K – 1 – Acquire</b> <b>K – 2 – Understanding</b> <b>K – 3 – Apply</b> <b>K – 4 – Evaluate</b> <b>K – 5 – Analyze</b>		
<b>Course Objectives</b>	<b>The Course aims to</b> <ul style="list-style-type: none"> <li>• make the students to crack competitive examinations</li> </ul>		
<b>Employability Units : I – V (Value added Course)</b>	<b>Regional need</b>	<b>Problem solving</b>	

UNIT	Content	No. of Hours
<b>I</b>	Indices and Surds – Vedic Mathematics – Simplification and Approximation – Problems on Ages and Numbers.	6
<b>II</b>	Percentage – Profit, Loss – Average and Discount – Ratio and Proportion.	6
<b>III</b>	Allegation and Mixtures – Time, Work and Wages – Pipes and Cisterns – Area of Plane figure.	6
<b>IV</b>	Partnership and Share – Simple Interest, Compound Interest, Growth and Depreciation – Probability.	6
<b>V</b>	Time and Distance - Trains – Boats and streams – Race – Clocks – Calendar.	6
<b>Reference</b>	<b>Text Books:</b> AbhijitGuha, Quantitative Aptitude for Competitive Examinations, McGraw Hill Education (India) Pvt Ltd, New Delhi, 5 <sup>th</sup> Edition, 2014. Unit I :Ch 6,7,8,9 Unit II :Ch 10,11,12,13 Unit III :Ch 15,16,17,26 Unit IV :Ch 14,18,19,33 Unit V :Ch 20,21,22,23,24,25  <b>Reference Books:</b> 1. N. K. Singh, Quantitative aptitude Test, UpkarPrakashan. 2. U. Mohan Rao, Quantitative Aptitude for Competitive Examinations, SCITECH Publications, 2012. 3. General Aptitude, G. K. Publications(P) Ltd., 2013.	
<b>Course Outcomes</b>	On completion of the course, students should be able to CO 1: know the basic concepts of Vedic Mathematics. CO 2: understand the concepts of ratio and proportion. CO 3: analyze the concepts of Time, work and wages. CO 4: apply the concepts of growth and depreciation.	

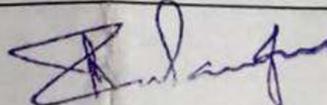
3 Degree : B.Sc.,  
 Programme : Mathematics(Extra Credit Course)  
 Semester : II

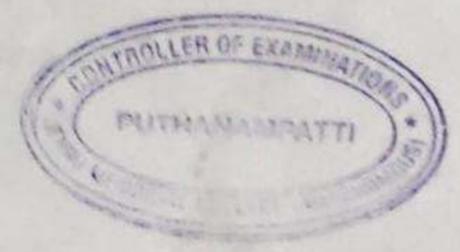
**NEHRU MEMORIAL COLLEGE**  
 (AUTONOMOUS)  
 PUTHANAMPATTI  
 UG - Degree Examinations - April, 2017  
**RESULT**  
 (For candidates admitted during 2016-2017)

Subject with Internal		Subject without Internal		Subject with Internal	
Max. Marks	Int: 25	Max. Marks	Int: -	Max. Marks	Int: 10
	Ext: 75		Ext: 100		Ext: 40
	Tot: 100		Tot: 100		Tot: 50
Passing Min.	Int: 10	Passing Min.	Int: -	Passing Min.	Int: 4
	Ext: 30		Ext: 40		Ext: 16
			Tot: 40		Tot: 20

Course Code(s)	Title of the Course(s)						
15EXCII	: MATHEMATICS FOR COMPETITIVE EXAMINATIONS						
SNo. Reg. No	Name of the Candidate(s)	Sub. Code	Int	Ext	Tot	Res	
1	MEU16M0001 ABIRAMI B	15EXCII	-	50	50	Pass	
2	MEU16M0002 BHARATHI S	15EXCII	-	52	52	Pass	
3	MEU16M0003 DAYANAMARI A	15EXCII	-	50	50	Pass	
4	MEU16M0004 DHARANI B	15EXCII	-	58	58	Pass	
5	MEU16M0006 DIVYA S	15EXCII	-	42	42	Pass	
6	MEU16M0007 GAYATHRI N	15EXCII	-	46	46	Pass	
7	MEU16M0008 JANAKI T	15EXCII	-	46	46	Pass	
8	MEU16M0009 KALAIYARASI T	15EXCII	-	56	56	Pass	
9	MEU16M0010 KANUSIYA M	15EXCII	-	40	40	Pass	
10	MEU16M0011 KEERTHANA T	15EXCII	-	48	48	Pass	
11	MEU16M0012 MADHUBALA G	15EXCII	-	56	56	Pass	
12	MEU16M0013 MANJU L	15EXCII	-	52	52	Pass	
13	MEU16M0014 NANDHINI N	15EXCII	-	48	48	Pass	
14	MEU16M0015 NATHIYA N	15EXCII	-	56	56	Pass	
15	MEU16M0016 NIHASINI R	15EXCII	-	58	58	Pass	
16	MEU16M0017 NIRMALA V	15EXCII	-	48	48	Pass	
17	MEU16M0018 NIVYA V G	15EXCII	-	48	48	Pass	
18	MEU16M0019 POORANI K	15EXCII	-	50	50	Pass	
19	MEU16M0020 PREMA P	15EXCII	-	44	44	Pass	

SNo. Reg. No	Name of the Candidate(s)	Sub. Code	Int	Ext	Tot	Res
20	MEU16M0021 PRIYADHARSHINI M	15EXCII	-	42	42	Pass
21	MEU16M0022 PRIYANKA S	15EXCII	-	52	52	Pass
22	MEU16M0023 RAMYA S	15EXCII	-	46	46	Pass
23	MEU16M0024 REVATHI P	15EXCII	-	52	52	Pass
24	MEU16M0025 REVATHI V	15EXCII	-	52	52	Pass
25	MEU16M0026 ROOBITHA M	15EXCII	-	56	56	Pass
26	MEU16M0027 SANGEETHA G	15EXCII	-	46	46	Pass
27	MEU16M0028 SATHIYA P	15EXCII	-	52	52	Pass
28	MEU16M0029 SURUTHI P	15EXCII	-	54	54	Pass
29	MEU16M0030 SWATHI S	15EXCII	-	54	54	Pass
30	MEU16M0032 VINOTHINI S	15EXCII	-	50	50	Pass
31	MEU16M0033 YUVARANI M	15EXCII	-	54	54	Pass
32	MEU16M0034 ARAVINDHAN R	15EXCII	-	58	58	Pass
33	MEU16M0035 DEEPANKUMAR S	15EXCII	-	44	44	Pass
34	MEU16M0036 MOHANRAJ R	15EXCII	-	46	46	Pass
35	MEU16M0037 PUSHPARAJ A	15EXCII	-	48	48	Pass

  
**Controller of Examinations**  
 Controller of Examinations  
 Nehru Memorial College (Autonomous)  
 Puthanampatti - 621 007  
 Tiruchirappalli District.



\*\*\* - Withheld      AAA - Absent      RA - Re-appear

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Puthanampatti – 621 007, Tiruchirappalli District,  
Tamil Nadu, INDIA.



## CERTIFICATE

*This is to certify that JANAKI, T. (MEU16M0008)  
has successfully completed the Certificate Course on  
“**MATHEMATICS FOR COMPETITIVE  
EXAMINATIONS**” conducted in APRIL 2017.*

  
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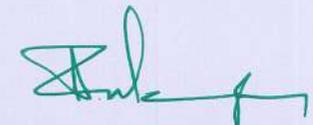


## CERTIFICATE

*This is to certify that MANJU, L. (MEU16M0013)  
has successfully completed the Certificate Course on  
**“MATHEMATICS FOR COMPETITIVE  
EXAMINATIONS”** conducted in APRIL 2017.*

  
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## CERTIFICATE

*This is to certify that RAMYA, S. (MEU16M0023)  
has successfully completed the Certificate Course on  
**“MATHEMATICS FOR COMPETITIVE  
EXAMINATIONS”** conducted in APRIL 2017.*

  
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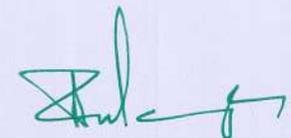


## CERTIFICATE

*This is to certify that PREMA, P. (MEU16M0020)  
has successfully completed the Certificate Course on  
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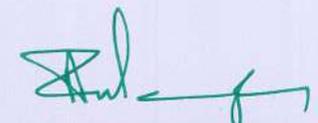


## CERTIFICATE

*This is to certify that MOHANRAJ, R. (MEU16M0036)  
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