

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
IAF-AVADI, CHENNAI - 55
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

AMSCE/EEE/CIR/VAC/003/2018-19

Date: 04.02.2019

The Department of Electrical and Electronics Engineering plans to conduct a Value Added Course on **Speed Maths** by **Mr.S.Jegadesh Krishnana, R&D Division M/S Sun Electric Company**, for the benefit of III year students. This course is scheduled from 05.02.2019 to 08.02.2019 (**09:00 AM to 5:30 PM**) for 4 days (30 Hrs).

All the students must attend all the classes with a minimum of 75% attendance and score 50% on the quiz. Students who complete the course successfully will receive certificates.


HOD/EEE

Copy To:

Principal
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Circulate to all faculty members and Students
Department File




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT FOR THE VALUE ADDED COURSE

Course Name: SPEED MATHS

Resource Person : Mr.S.Jegadesh Krishnana, R&D Division M/S Sun Electric Company

Date: 05.02.2019 to 08.02.2019

Time: 09.00 A.M to 05.30 P.M

Course Hours: 30 Hours

Attended Student: 41 Students

Student Certified: 41 Students

No. of Modules: 4 Modules

Course Objectives:

- Master mental calculation techniques
- Develop rapid problem-solving skills
- Improve mathematical accuracy and speed
- Enhance cognitive abilities and memory

Course Outline:

- Introduction to Vedic Maths and mental calculation techniques
- Multiplication and division methods
- Addition and subtraction shortcuts
- Squares, cubes, and roots calculations
- Algebraic and geometric calculations
- Practice exercises and assessments

Course Outcome:

- Participants mastered various mental calculation techniques
- Demonstrated significant improvement in mathematical speed and accuracy
- Developed enhanced cognitive abilities and memory
- Showcased confidence in solving complex mathematical problems


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Key Takeaways:

- Mastery of Vedic Maths techniques for rapid calculations
- Improved mathematical speed and accuracy
- Enhanced cognitive abilities and memory
- Increased confidence in solving complex mathematical problems

Achievements:

- Average calculation speed increase of 3x
- 95% of participants showed improved mathematical accuracy
- 90% of participants demonstrated enhanced cognitive abilities

Recommendations:

- Continue practicing Speed Maths techniques for reinforcement
- Apply mental calculation skills to real-world problems and applications
- Explore advanced maths topics, such as calculus and number theory.

S-F. Syed. Usay
11/2/19
COURSE-COORDINATOR

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11/2/19
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Organize

Value Added Course

on

“SPEED MATHS”

Course Details:

Duration: 30 Hrs

Course start from 05.02.2019 to 08.02.2019

Venue: Power System Simulation Laboratory, EEE Block

**RESOURCE PERSON: Mr. S.Jegadesh Krishnan,
R&D Division Sun Electric Company**

A.MOHANASUNDARAM
HEAD/EEE

Dr.AFZAL ALI BAIG M
PRINCIPAL

From

Mr. S.F. Syed Vasiyullah,
Assistant Professor,
Department of Electrical and Electronics Engineering,
Aalim Muhammed Salegh College of Engineering,
Muthapudupet, Avadi IAF,
Chennai – 600055.

To

The Principal,
Aalim Muhammed Salegh College of Engineering,
Muthapudupet, Avadi IAF,
Chennai – 600055.

Dear Sir,

Sub: Request for Approval of Value-Added Course: Speed Maths – reg.

I am writing to formally request your approval for the value-added course titled “Speed Maths” for III year EEE students from 05.02.2019 – 08.02.2019. I believe that the course will enhance our students' mathematical skills and problem-solving abilities. As you are aware, proficiency in mathematics is essential in various academic and professional fields. The Speed Maths course aims to equip students with techniques to solve mathematical problems quickly and accurately, thereby boosting their confidence and improving their performance in competitive examinations. We kindly request your approval to proceed with this course.

S.F. Syed Vasiyullah
Yours Faithfully, 23/01/19

Submitted to Principal sir

Please permit us to conduct this value added course on the schedule period. This skill will improve the mathematical skill for the students.



A.M.
23/01/19

A. MOHANASUNDARAM HEAD/EEE

Permitted

A.M.
23/01/19

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SYLLABUS FOR THE VALUE ADDED COURSE SPEED MATHEMATICS

Module 1: Introduction to Speed Math

Morning Session:

- **Overview of Speed Math**
 - Importance and applications in academics and real life
 - Goals and expectations of the course
- **Basic Arithmetic Refresher**
 - Addition, subtraction, multiplication, and division
 - Tips for improving calculation speed

Afternoon Session:

- **Mental Math Techniques**
 - Number patterns and tricks
 - Estimation strategies
- **Practice Exercises**
 - Group activities focusing on basic arithmetic speed

Module 2: Multiplication and Division Techniques

Morning Session:

- **Speed Multiplication Techniques**
 - Doubling and halving
 - Using the distributive property
 - The grid method

Afternoon Session:

- **Speed Division Techniques**
 - Long division shortcuts
 - Divisibility rules
 - Approximating division with compatible numbers




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- **Practice Exercises**
 - Timed drills and competitive games

Module 3: Advanced Techniques

Morning Session:

- **Working with Percentages and Fractions**
 - Fast calculation of percentages
 - Converting between fractions, decimals, and percentages quickly
- **Using Benchmarks and Rounding**
 - Estimation with rounding techniques
 - Quick conversions between units

Afternoon Session:

- **Introduction to Algebraic Speed Techniques**
 - Solving equations quickly
 - Mental math strategies for algebraic expressions
- **Practice Exercises**
 - Problem-solving sessions using advanced techniques

Module 4: Application and Real-World Problems

Morning Session:

- **Speed Math in Real-Life Scenarios**
 - Applications in finance, budgeting, and data analysis
 - Real-world problem-solving exercises
- **Games and Competitions**
 - Fun challenges to apply learned techniques
 - Peer competitions to boost confidence

Afternoon Session:

- **Review and Reinforcement**
 - Recap of key techniques learned
 - Q&A session to clarify concepts
- **Final Assessment**
 - A timed test to evaluate speed math skills
 - Feedback and tips for continued practice




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Recommended Reading:

- "Speed Mathematics Simplified" by Edward Stoddard
- "The Trachtenberg Speed System of Basic Mathematics" by Jakow Trachtenberg

Course Outcomes:

By the end of this course, students will be able to perform calculations more quickly and accurately, apply speed math techniques in academic and real-world situations, and enhance their overall mathematical confidence.

S.F. Abdul Wahid
23/01/19
COURSE-COORDINATOR

[Signature]
23/01/19
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Schedule for the Value Added Course Speed Maths

05.02.2019

Introduction to Speed Maths

09.00 A.M to 12.30 PM

- **Overview of Speed Math**
 - Importance and applications in academics and real life
 - Goals and expectations of the course
- **Basic Arithmetic Refresher**
 - Addition, subtraction, multiplication, and division
 - Tips for improving calculation speed

01.30 PM to 05.30 PM

- **Mental Math Techniques**
 - Number patterns and tricks
 - Estimation strategies
- **Practice Exercises**
 - Group activities focusing on basic arithmetic speed

06.02.2019

Multiplication and Division Techniques

09.00 A.M to 12.30 PM

- **Speed Multiplication Techniques**
 - Doubling and halving
 - Using the distributive property
 - The grid method

- **Speed Division Techniques**




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- Long division shortcuts
- Divisibility rules
- Approximating division with compatible numbers

01.30 PM to 05.30 PM

- **Practice Exercises**
 - Timed drills and competitive games
-

07.02.2019

Advanced Techniques

09.00 A.M to 12.30 PM

- **Working with Percentages and Fractions**
 - Fast calculation of percentages
 - Converting between fractions, decimals, and percentages quickly
- **Using Benchmarks and Rounding**
 - Estimation with rounding techniques
 - Quick conversions between units

01.30 PM to 05.30 PM

- **Introduction to Algebraic Speed Techniques**
 - Solving equations quickly
 - Mental math strategies for algebraic expressions
 - **Practice Exercises**
 - Problem-solving sessions using advanced techniques
-

08.02.2019

Application and Real-World Problems

09.00 A.M to 12.30 PM

- **Speed Math in Real-Life Scenarios**
 - Applications in finance, budgeting, and data analysis
 - Real-world problem-solving exercises
- **Games and Competitions**
 - Fun challenges to apply learned techniques
 - Peer competitions to boost confidence




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01.30 PM to 05.30 PM

- **Review and Reinforcement**
 - Recap of key techniques learned
 - Q&A session to clarify concepts
- **Final Assessment**
 - A timed test to evaluate speed math skills
 - Feedback and tips for continued practice

S.F. Syed Vly
08/02/19
COURSE COORDINATOR

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08/02/19
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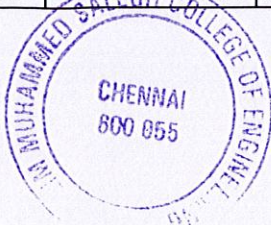
Certificate course on SPEED MATHS

Academic year- 2018-2019

BATCH: 2016-2020

YEAR/SEM: III / VI

S.No.	REGISTER NO.	NAME OF THE STUDENT	5/2/2019	8/2/2019	7/2/2019	8/2/2019
1	110116105001	ABDUL ASIEF A	Asif	Asif	Asif	Asif
2	110116105002	ABDULLA.P.	Abdullah	Abdullah	Abdullah	Abdullah
3	110116105003	ABDULLAH.M.	Abdullah	Abdullah	Abdullah	Abdullah
4	110116105004	ABDUL MAJEED.V.M	Abu. Majeed	Abu. Majeed	Abu. Majeed	Abu. Majeed
5	110116105005	ARSHAD.N.	Arshad	Arshad	Arshad	Arshad
6	110116105006	ERIC J RASHO	Eric	Eric	Eric	Eric
7	110116105007	FARWAZ AHAMED.N.	Farwaz	Farwaz	Farwaz	Farwaz
8	110116105008	MOHAIDEEN ABDUL KADER JAILANI.M.	AK Jaidi	AK Jaidi	AK Jaidi	AK Jaidi
9	110116105009	MOHAMED ARSATH K	Arsath	Arsath	Arsath	Arsath
10	110116105010	MOHAMED ETARIS M	Etaris	Etaris	Etaris	Etaris
11	110116105011	MOHAMED HARIS.A.	M. Haris	M. Haris	M. Haris	M. Haris
12	110116105012	MOHAMED ISMAIL ADHAM.S.M.S	Ismail	Ismail	Ismail	Ismail
13	110116105013	MOHAMED SAALEEM M H	Saleem	Saleem	Saleem	Saleem
14	110116105014	MOHAMED SULAIMAN.K.	Sulaiman	Sulaiman	Sulaiman	Sulaiman
15	110116105015	MOHAMMED SAFEEQ P	Safeeq	Safeeq	Safeeq	Safeeq
16	110116105016	NAVEEN KUMAR.S.	Naveen	Naveen	Naveen	Naveen
17	110116105017	RAHUL.S	Rahul	Rahul	Rahul	Rahul
18	110116105018	RASIK S	S. Rasik	S. Rasik	S. Rasik	S. Rasik
19	110116105019	SEYED MOHAMED	Sayed	Sayed	Sayed	Sayed
20	110116105020	VASEEM AHMED V	Vaseem	Vaseem	Vaseem	Vaseem
21	110116105021	WASIM KHAN J	Wasim	Wasim	Wasim	Wasim
22	110116105022	YASAR ARAFATH.M.	Yasar	Yasar	Yasar	Yasar
23	110116105023	YOUSUF IMRAN.F	Yousuf	Yousuf	Yousuf	Yousuf
24	110116105301	D. AFRIN TABASSUM	Arfin	Arfin	Arfin	Arfin
25	110116105302	AKASH HIROSH	Aakash	Aakash	Aakash	Aakash
26	110116105303	G.ALTAJ	Altaj	Altaj	Altaj	Altaj
27	110116105304	R.ANBARSU	Anbarsu	Anbarsu	Anbarsu	Anbarsu
28	110116105306	T.GOPI	Gopi	Gopi	Gopi	Gopi
29	101116105307	B.JAMAL MOHAMED	T. Gopi	T. Gopi	T. Gopi	T. Gopi
30	101116105308	M.MOHAMED RAJAB	Rajab	Rajab	Rajab	Rajab
31	110116105309	A.NIBIN ABRAHAM	Nibin	Nibin	Nibin	Nibin
32	110116105310	R.PARTHA SARATHI	Partha	Partha	Partha	Partha
33	110116105311	D.RAJESH KANNA	Rajesh	Rajesh	Rajesh	Rajesh
34	101116105312	RAJKUMAR SINGH	Rajkumar	Rajkumar	Rajkumar	Rajkumar
35	110116105314	M.SYED NIZAMUDDIN	Nizam	Nizam	Nizam	Nizam
36	110116105315	R.THANIKACHALAM	Thanika	Thanika	Thanika	Thanika
37	110116105501	IMTHIYAZ AHAMED S	Ahamed	Ahamed	Ahamed	Ahamed
38	110116105502	MOHAMMED IBRAHIM A S	Ibrahim	Ibrahim	Ibrahim	Ibrahim
39	110116105503	MOHAMMED ASCAR A	Ascar	Ascar	Ascar	Ascar
40	110116105504	NAUSHAD SAHEEB K	Sahud	Sahud	Sahud	Sahud
41	110116105505	MOHAMMED SHAJITH M	Shajith	Shajith	Shajith	Shajith



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09/02/19
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"Nizara Educational Campus", Muthapudupet, AVADI-IAF, Chennai-55

Certificate of Completion

This is to certify that

ABDUL ASIEF A

Of III year Department of Electrical and Electronics Engineering has
successfully completed the course for "**SPEED MATHS**"
in the academic year 2018-2019..

08.02.2019

DATE

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Certificate of Completion

This is to certify that

ABDUL MAJEED.V.M

Of III year Department of Electrical and Electronics Engineering has
successfully completed the course for "**SPEED MATHS**"
in the academic year 2018-2019..

08.02.2019

DATE

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"Nizara Educational Campus", Muthapudupet, AVADI-IAF, Chennai-55

Certificate of Completion

This is to certify that

MOHAMED ARSATH K

Of III year Department of Electrical and Electronics Engineering has
successfully completed the course for "**SPEED MATHS**"
in the academic year 2018-2019..

08.02.2019

DATE

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Certificate of Completion

This is to certify that

MOHAMMED SAFEEQ P

Of III year Department of Electrical and Electronics Engineering has
successfully completed the course for "**SPEED MATHS**"
in the academic year 2018-2019..

08.02.2019

DATE

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Certificate of Completion

This is to certify that

R.ANBARSU

Of III year Department of Electrical and Electronics Engineering has
successfully completed the course for "**SPEED MATHS**"

in the academic year 2018-2019..

08.02.2019

DATE

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"Nizara Educational Campus", Muthapudupet, AVADI-IAF, Chennai-55

Certificate of Completion

This is to certify that

M.SYED NIZAMUDDIN

Of III year Department of Electrical and Electronics Engineering has
successfully completed the course for "**SPEED MATHS**"
in the academic year 2018-2019..

08.02.2019

DATE

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