



## AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai  
NAAC Accredited Institution

"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.

ANNA UNIVERSITY COUNSELLING CODE : 1101



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dated on: 03/09/2019

CIRCULAR

FACULTY MEMBERS AND STUDENTS

We have planned to conduct Value Added course in our department on the topic "FUNDAMENTALS OF MATLAB" from 07/09/2019 to 28/09/2019 therefore, I request all the Faculty members and students to attend the course and make utilization of the course for your future.

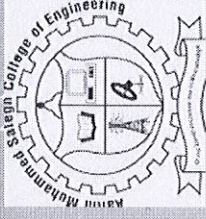
Resource Person:

Er. MUHAMMED ILYAS B.E, M.E.,  
AMSCE ALUMNUS  
BATCH 2008 – 2012(ECE)  
CEO, EXPERT IT TRAINING



Prof. Dr. A.S.SALMA BANU  
HoD/ECE

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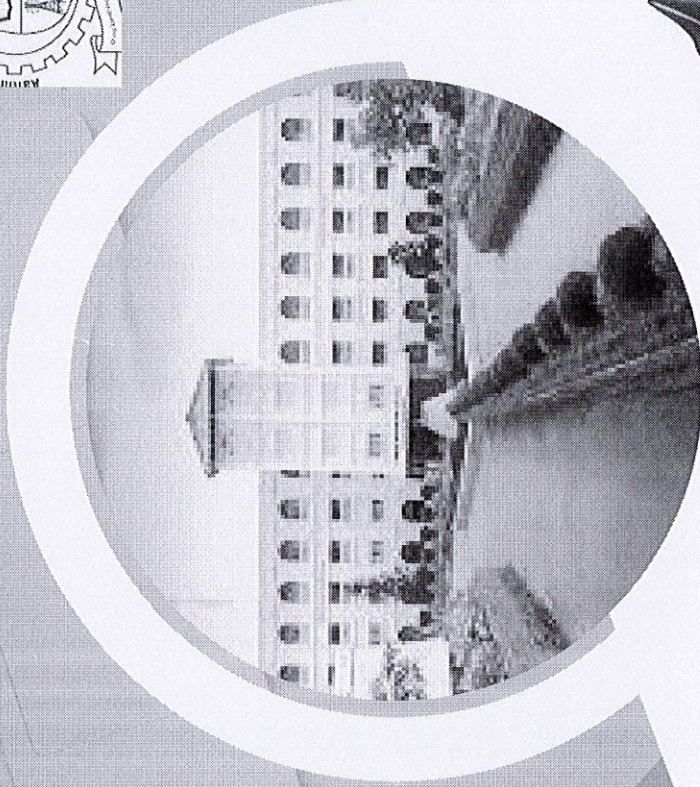


## RESOURCE PERSON

Er. Muhammed Ilyas  
CEO, Expert Training,  
AMSCE ALUMNUS



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COLLEGE OF ENGINEERING



VALUE  
ADDED  
COURSE

from September 7th  
2019

Prof. Dr. A. S. Salma Banu  
Head/ECE

# Fundamentals of Matlab

## Contact Us



Phone:  
9444260079



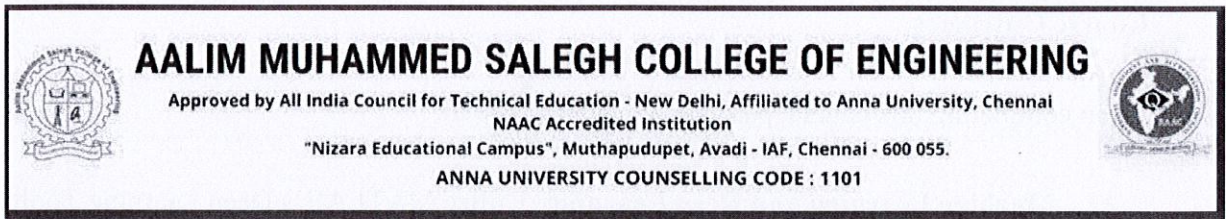
Email:  
as.salmabanu@aalimec.ac.in



Venue:  
ECE Department

Prof. Dr. S. Sathish  
Principal

Alhaj. S. Segu Jamaludeen  
Secretary & Correspondent



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**VALUE-ADDED COURSE-SUMMARY REPORT**

**COURSE NAME: FUNDAMENTALS OF MATLAB**

Date: 07/09/2019 to 28/09/2019

Time: Morning Session: 9.00 am to 1.00 pm

Afternoon Session: 1.30 pm & 5:00 pm

No. of weeks: 4

No. of Modules: 4

Course Hours: 30

Mode of Conduction: Offline

Speaker: Mr. Muhammed Ilyas

Attended Students: 94

**Objective of the Course:**

The objective of this course is to equip participants with in-depth knowledge and practical skills in MATLAB for advanced data analysis, machine learning, optimization, signal processing, and high-performance computing. Through this course, learners will master MATLAB's specialized toolboxes and functionalities, enabling them to effectively address complex challenges in engineering, data science, and research-driven applications across diverse fields.

**Summary of the Course:**

This course provides a comprehensive exploration of MATLAB's capabilities in four critical domains: Machine Learning and Deep Learning, Optimization and Numerical Methods, Signal and Image Processing, and Parallel and GPU Computing. Each module focuses on practical applications and hands-on experience with MATLAB's specialized toolboxes, allowing participants to apply advanced computational techniques to real-world problems. By the end of the course, learners will have gained proficiency in building, optimizing, and accelerating complex models, positioning them for success in AI, engineering, and high-performance computing environments.



  
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## Course Outcomes:

Upon completing this course, participants will be able to:

1. **Machine Learning and Deep Learning:** Utilize MATLAB's Deep Learning Toolbox to design, train, and deploy neural networks for applications in computer vision, natural language processing, and predictive modeling.
2. **Optimization and Numerical Methods:** Apply MATLAB's Optimization Toolbox to solve complex nonlinear, linear, and global optimization problems, enhancing skills applicable in engineering, finance, and logistics.
3. **Signal and Image Processing:** Leverage MATLAB's signal and image processing functions to analyze, filter, and segment data, with applications in medical imaging, audio analysis, and telecommunications.
4. **Parallel and GPU Computing:** Implement parallel processing and GPU acceleration to speed up data-intensive tasks in MATLAB, supporting high-demand computations in machine learning, simulations, and real-time processing.



  
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4VADI - IAF, MUTHAPUDUPE  
CHENNAI 600 055

Place: Chennai  
Date:19 /08/2019

From,

Head of the Department  
Department of ECE  
Aalim Muhammed Salegh College of Engineering  
Avadi IAF, Muthapudupet  
Chennai - 600055

To,

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

Respected Sir,

Sub: Requisition for the approval to conduct Value Added course in our ECE department – Reg.

We wish to conduct Value Added course in our ECE department on the topic  
“FUNDAMENTALS OF MATLAB” an Alumni Guest Lecture Series From 07/09/2019 to 28/09/2019.

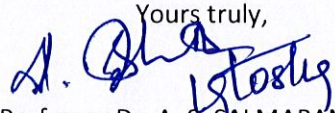
**Resource Person:**

Er. MUHAMMED ILYAS B.E, M.E.,  
AMSCE ALUMNUS  
BATCH 2008 – 2012(ECE)  
CEO, EXPERT IT TRAINING

The objective of conducting this Value Added course will give the industry focus in developing skills required by using latest technology advancement in “FUNDAMENTALS OF MATLAB”. This effort will benefit our Student’s community and bring core strength in engineering field.


Thank you,

Yours truly,

  
Professor Dr. A. S. SALMABANU  
Head of the Department/ECE




*Remitted*  
*Shafiq*  
*19/08/2019*  
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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**CERTIFICATE COURSE-FUNDAMENTALS OF MATLAB**  
**Academic Year: (2019-2020)**

**COURSE CONTENT:**

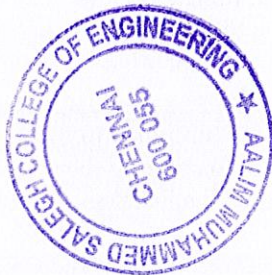
Module No.	CONTENT	Description	HOURS
Module 1	<b>Machine Learning and Deep Learning</b>	<ul style="list-style-type: none"> <li>Mastering machine learning and deep learning in MATLAB is critical for modern data analysis and AI applications. MATLAB's Deep Learning Toolbox provides an accessible yet powerful environment for building, training, and deploying neural networks (CNNs, RNNs, LSTMs).</li> <li>Useful for applications in computer vision, natural language processing, and predictive modeling across fields.</li> </ul>	7 hours 30 minutes
Module 2	<b>Optimization and Numerical Methods</b>	<ul style="list-style-type: none"> <li>Advanced optimization methods are essential for finding the best solutions in engineering, economics, and logistics. MATLAB's Optimization Toolbox offers tools for nonlinear, linear, and global optimization, which are foundational for complex system modeling.</li> <li>Applications span from portfolio optimization in finance to engineering design optimization and machine learning hyperparameter tuning.</li> </ul>	7 hours 30 minutes
Module 3	<b>Signal and Image Processing</b>	<ul style="list-style-type: none"> <li>MATLAB excels in signal and image processing, with specialized functions for Fourier transforms, wavelet analysis, filtering, and segmentation. These tools are invaluable in fields like medical imaging, audio analysis, and remote sensing.</li> <li>Real-time processing with the DSP System Toolbox enables applications in telecommunications, biomedical engineering, and sensor data analysis.</li> </ul>	7 hours 30 minutes



  
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Module 4	<p align="center"><b>Parallel and GPU Computing</b></p>	<ul style="list-style-type: none"> <li>• MATLAB's Parallel Computing Toolbox and GPU support accelerate large-scale computations, a necessity for data-intensive tasks in machine learning, optimization, and simulations. Understanding parallel processing is crucial for high-performance applications.</li> <li>• Applications include training deep neural networks on GPUs, distributed simulations, and real-time data processing, making it essential for high-demand tasks in research and industry.</li> </ul>	7 hours 30 minutes
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**TOTAL: 30 HRS**



  
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### Value Added Course Tentative Time Table And Schedule

Value Added Course Name: FUNDAMENTALS OF MATLAB

Date of Commencement: From 07/09/2019

Timing: Morning Session: 9.00 am to 1.00 pm

Afternoon Session: 1.30 pm & 5:00 pm

Tentative Date of Exam- 28/09/2019

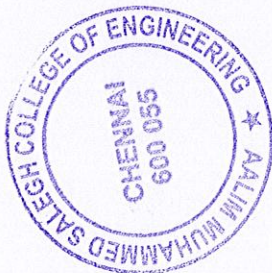
Tentative Course Schedule - 07/09/2019 to 28/09/2019 (As per following)


No. Of Weeks: 4 (Saturday)

Course Hours: 30

Speaker: Mr. Muhammed Ilyas

1. Module -1: Machine Learning And Deep Learning – 07-09-2019 – 7 hours 30 minutes
2. Module -2: Optimization and Numerical Methods – 14-09-2019 - 7 hours 30 minutes
3. Module -3: Signal And Image Processing – 21-09-2019 – 7 hours 30 minutes
4. Module -4: Parallel And GPU Computing – 28-09-2019 – 7 hours 30 minutes



  
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Aalim Muhammed Salegh College of Engineering  
Department of Electronics and Communication Engineering

Value Added Courses : Fundamentals of Mat lab

Year : II Sem : III Sec : A

S.NO	REG.NO	NAME OF THE STUDENT	7/9/19	14/9/19	21/7/19	28/9/19
1	110117106004	ABDUR RAHMAN B	Abdul	Abdul	Abdul	Abdul
2	110117106005	ABDUR RAQIB N	Raqib	Raqib	Raqib	Raqib
3	110117106006	ABUL KALAM.H.	Kalam	Kalam	Kalam	Kalam
4	110117106007	APARNA M	Aparna	Aparna	Aparna	Aparna
5	110117106008	ASHANI.R	Ashani	Ashani	Ashani	Ashani
6	110117106009	BHARATH.V	Bharathi	Bharathi	Bharathi	Bharathi
7	110117106011	FAHIMA BEGAM M	Fahima	Fahima	Fahima	Fahima
8	110117106012	FARIHA PARVEEN S A	Fariha	Fariha	Fariha	Fariha
9	110117106013	FARITHA.J	Faritha	Faritha	Faritha	Faritha
10	110117106014	FATHIMA R	Fathima	Fathima	Fathima	Fathima
11	110117106019	JABEEN	Jabeen	Jabeen	Jabeen	Jabeen
12	110117106020	KARTHIKEYAN. A	Karthikeyan	Karthikeyan	Karthikeyan	Karthikeyan
13	110117106023	MD SHOABSHARIEF.F.	Shoab	Shoab	Shoab	Shoab
14	110117106024	MISBA FATHIMA.A.	Misba	Misba	Misba	Misba
15	110117106026	MOHAMED IMRAN.M.A	Mohamed	Mohamed	Mohamed	Mohamed
16	110117106027	MOHAMED ISHAK M	Ishak	Ishak	Ishak	Ishak
17	110117106028	MOHAMMED ISMAIL MIHAL	Mihail	Mihail	Mihail	Mihail
18	110117106034	MOHAMED YOUSUF.A.	Yousuf	Yousuf	Yousuf	Yousuf
19	110117106037	MOHAMMED FAZIL J	Fazil	Fazil	Fazil	Fazil
20	110117106039	MOHAMMED RAGHADAN	Raghadan	Raghadan	Raghadan	Raghadan
21	110117106040	MOHAMMED SIRAJUDEEN.J	Siraj	Siraj	Siraj	Siraj
22	110117106043	MOHAMMED WASIM M S	Wasim	Wasim	Wasim	Wasim
23	110117106045	NANDHINI R	Nandini	Nandini	Nandini	Nandini
24	110117106048	RASHEED THARIQ.M	Rasheed	Rasheed	Rasheed	Rasheed
25	110117106050	SABIHA TABASSUM S	Sabiha	Sabiha	Sabiha	Sabiha

26	110117106051	SHAHID HUSSAIN.N	Hussain	Yes	Yes	AB	Yes
27	110117106055	SHOAIB AKTHAR SHARIFF.A.	Shoaib	Yes	Yes	AB	Yes
28	110117106056	SOWMYA.R.	Sowmya	Yes	Yes	AB	Yes
29	110117106057	SUHAIL AHMAD NOOR A	Suhail	Yes	Yes	AB	Yes
30	110117106058	SUMIYA BANU.A.	Sumiya	Yes	Yes	AB	Yes
31	110117106061	TASNEEM FATHIMA.K	Tasneem	Yes	Yes	AB	Yes
32	110117106062	THOWFIC AHAMED.M.	Thowfic	Yes	Yes	AB	Yes
33	110117106063	YAASMEEN.I	Yaasmeen	Yes	Yes	AB	Yes
34	110117106064	YOGESWARI.G	Yogeswari	Yes	Yes	AB	Yes
35	110117106304	UMA DEVI.S	Uma	Yes	Yes	AB	Yes

DATE

PRINCIPAL



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AALIM MUHAMMAD SALEGH  
COLLEGE OF ENGINEERING

Handwritten signature and name of the Principal, Aalim Muhammad Salegh.

**Aalim Muhammed Salegh College of Engineering**  
**Department of Electronics and Communication Engineering**  
**Value Added Courses :Fundamentals Of Mat lab(2019-2020)**

Year : III

Sem : V

Sec : B

Sl.No	Register No.	Student Name	7/9/19	19/9/19	21/9/19	28/9/19	—
1	110116106031	MOHAMED ZAFER AZGHAR.K	Zafer	Zafer	Zafer	Zafer	Zafer
2	110116106032	MOHAMED ZUBAIR.M.R	M.R.Zub	M.R.Zub	M.R.Zub	M.R.Zub	M.R.Zub
3	110116106033	MOHAMMED NAWAZ M	M.Nawaz	M.Nawaz	M.Nawaz	M.Nawaz	M.Nawaz
4	110116106034	MOHAMMEDE OSAMAH K A	Osamah	Osamah	Osamah	AB	Osamah
5	110116106035	MOHAMMED RIZWAN A	ARIZWA	ARIZWA	ARIZWA	ARIZWA	ARIZWA
6	110116106036	MOHAMMED SUHAIL S	S.Suhail	S.Suhail	S.Suhail	AB	S.Suhail
7	110116106037	MOHAMMED TAYYIB D	Tayyib	Tayyib	Tayyib	Tayyib	AB
8	110116106038	MUDHASIR H	H.Mudhasir	H.Mudhasir	H.Mudhasir	H.Mudhasir	AB
9	110116106039	MUHAMMAD MOHIDEEN	Mohideen	Mohideen	AB	AB	Mohideen
10	110116106040	MUJEEBA AFREEN M A	M.A.Afreen	M.A.Afreen	M.A.Afreen	M.A.Afreen	M.A.Afreen
11	110116106041	NABIL KHAN S	S.Nabil	S.Nabil	S.Nabil	AB	S.Nabil
12	110116106042	NITHISH KUMAR A	A.Nithish	A.Nithish	A.Nithish	A.Nithish	A.Nithish
13	110116106043	PREETHY M	M.Preethy	M.Preethy	AB	M.Preethy	M.Preethy
14	110116106044	RAHIMUNISHA.S	Rashmi	Rashmi	Rashmi	Rashmi	Rashmi
15	110116106045	RAYHANA.M	AB	Rayhan	AB	Rayhan	AB
16	110116106046	REHANA BANU KHASIM SHERIFF	Rehana	Rehana	AB	Rehana	AB
17	110116106047	VISHARAM REHMATHULLA.	Vishram	Vishram	Vishram	Vishram	AB
18	110116106048	SANTHANA KRISHNAN P	AB	AB	AB	AB	AB
19	110116106049	SHABANA A K	Shabana	Shabana	Shabana	Shabana	Shabana
20	110116106050	SHAJITHA BANU A	Shajitha	AB	Shajitha	AB	AB
21	110116106051	SUHAILUR RAHMAN S	Suhailur	Rahman	Rahman	Rahman	Rahman
22	110116106052	SYED TAYYIB	Syed	Syed	Syed	Syed	Syed
23	110116106053	THIYUBA J	Thiyuba	Thiyuba	Thiyuba	Thiyuba	Thiyuba
24	110116106054	USMAN HUSSAIN.S.A	AB	Usman	Usman	Usman	AB
25	110116106055	YASAR ARAFATH.E	Yasar	AB	Yasar	AB	Yasar
26	110116106056	YASIN ASLAM	Yasin	Yasin	Yasin	Yasin	Yasin
27	110116106057	YASMEEN FATHIMA	Yasmeen	Yasmeen	Yasmeen	Yasmeen	AB
28	110116106058	YOUSUF JAFFERY.J	Yousuf	Yousuf	AB	Yousuf	Yousuf
29	110116106302	BALA ANIL KUMAR	AB	Bala	Bala	Bala	AB
30	110116106305	NOUMI SINGH	AB	Noomi	Noomi	Noomi	Noomi
31	110116106306	PRASANTH KUMAR . M	Prasanth	AB	Prasanth	AB	AB
32	110116106016	JASMEEN FATHIMA A	Jasmeen	Jasmeen	Jasmeen	Jasmeen	Jasmeen



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**COLLEGE OF ENGINEERING**

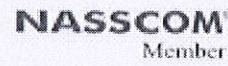
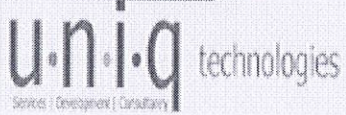
**Aalim Muhammed Salegh College of Engineering**  
**Department of Electronics and Communication Engineering**  
**Value Added Courses :Fundamentals Of Mat lab(2019-2020)**

Year : III			Sem : V		Sec : A		
Sl.No	Register No.	Student Name	7/9/19	14/9/19	21/9/19	28/9/19	—
1	110116106001	ABDUL HAMEED S S	has	has	has	has	has
2	110116106002	ABDUL RASOOL A K	has	has	has	has	has
3	110116106003	ABDUS SATHAR A	has	AB	has	has	has
4	110116106004	AFRATH MAJEED A	has	has	has	has	has
5	110116106005	AKIB JAVITH V S T	has	AB	has	has	has
6	110116106006	AKTHAR AHAMED	has	AB	has	has	has
7	110116106007	ASIF.S	has	has	has	has	has
8	110116106008	AYSHA FARHANA M N	has	AB	has	has	has
9	110116106009	DEEPAK D	has	has	has	has	has
10	110116106010	DINESH.V	has	AB	has	has	has
11	110116106011	FOUZIYA	has	has	has	has	has
12	110116106012	HAFIZA SHAFREEN	has	has	has	has	has
13	110116106013	HASIF.H	has	AB	has	has	has
14	110116106014	IMRAN SAMEEH.M	has	has	has	has	has
15	110116106015	IRFANA NILOFER.A	has	AB	has	has	AB
	110116106016	JASMEEN FATHIMA A	has	AB	has	has	has
16	110116106017	KADEEJA.N	has	has	has	has	has
17	110116106018	KHAJA FARIDUDEEN S K	has	has	has	has	has
18	110116106020	MAJOTH PRATHAP M	has	has	has	has	has
19	110116106021	MOHAMED ASHIK ALI A	AD	has	has	has	has
20	110116106022	MOHAMED BASHITH M	has	has	has	AB	has
21	110116106023	MOHAMED HAMEED SALMAN N	has	has	has	has	has
22	110116106024	MOHAMED IMTIAZ.S	has	AD	has	has	has
23	110116106025	MOHAMED IRFAN.M	has	has	has	has	has
24	110116106026	MOHAMED MUBARACK.N	has	has	has	has	has
25	110116106027	MOHAMED MUIENUDEEN M	has	has	has	AB	has
26	110116106028	MOHAMED NADEEM.S	has	has	AB	has	has
27	110116106029	MOHAMED NOORUL TASLIMA	has	has	has	has	has
28	110116106030	MOHAMED SHAFIQ.H.M	has	AB	AB	AB	has
29	110116106301	ANISH FATHIMA.I	AB	has	has	has	AB
30	110116106303	DUSHADHINI V	has	AB	has	AB	AB
31	110116106304	MOHAMED JASIM J	has	has	has	has	has
32	110116106307	PRAVEEN KUMAR .G.S	has	AB	has	has	AB
33	110116106308	RAMYA.S	has	has	has	has	has



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**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**

C-ID:1910601



## CERTIFICATE of Participation

This certificate is proudly presented to :

**AFRIN FATHIMA S A**

has successfully completed 5 days value added course in "FUNDAMENTALS OF MATLAB" from 7.9.2019 to 28.9.2019 . we appreciate your hard work and sincerity towards your course and wish you good luck for your future endeavor.

*Muhammad Ilyas*  
CO-ORDINATOR

*Vikasa Prathiba*  
CEO & Founder -  
Unique Technology  
Global Corporational

*[Signature]*  
PRINCIPAL  
AALIM MUHAMMED SA  
COLLEGE OF ENGINEERING





**NASSCOM**  
Member



## CERTIFICATE of Participation

This certificate is proudly presented to:

**MOHAMMED WASIM M S**

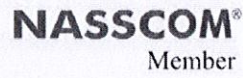
has successfully completed 5 days value added course in "FUNDAMENTALS OF MATLAB" from 7.9.2019 to 28.9.2019. we appreciate your hardwork and sincerity towards your course and wish you good luck for your future endeavor.

*Muhammad Ilyas*  
**CO-ORDINATOR**

*Vikas Pathak*  
**CEO & Founder-  
Unique Technology  
Global Corporational**



*102*  
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AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING**



## CERTIFICATE of Participation

This certificate is proudly presented to:

**MOHAMMED FAZIL J**

has successfully completed 5 days value added course in "FUNDAMENTALS OF MATLAB" from 7.9.2019 to 28.9.2019. we appreciate your hardwork and sincerity towards your course and wish you good luck for your future endeavor.

*Muhammad Ilyas*  
**CO-ORDINATOR**

*Vikas Pathak*  
**CEO & Founder-  
Unique Technology  
Global Corporational**



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AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING**



## CERTIFICATE of Participation

This certificate is proudly presented to:

**MOHAMMED RAGHADAN**

has successfully completed 5 days value added course in "FUNDAMENTALS OF MATLAB" from 7.9.2019 to 28.9.2019. we appreciate your hardwork and sincerity towards your course and wish you good luck for your future endeavor.

*Muhammad Ilyas*  
**CO-ORDINATOR**

*Vikas Pathak*  
**CEO & Founder-  
Unique Technology  
Global Corporational**



*[Signature]*  
**PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING**