



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**IN ASSOCIATION WITH IETE (STUDENTS' FORUM, SVCE) AND MATHWORKS OFFERS**  
**ONE-MONTH ONLINE CERTIFICATE COURSE ON**  
**“COMPLETE MATLAB ESSENTIALS LEADING TO APPLICATION DEVELOPMENT”**

**Target Audience:**

- III-year students of Department of ECE
- Participants from Industry

**Course Details:**

- 30<sup>th</sup> March to 28<sup>th</sup> April 2021
- 2 hours per day, 46 hours in total,
- Mode: Google Meet



**Course Pre-requisites:**

- Knowledge of Basic Programming Skills
- Sound in Concepts of ECE

**Course Outcomes:**

- Relate theory with real time scenarios
- Command over MATLAB

**Course Coordinators:**

**Dr. P. ASHOK**, Assistant Professor, Department of ECE,  
SVCE.

**Dr. S. MUTHUKUMAR**, Professor & Head, Dept of  
ECE, SVCE.

Link for Registration: <https://forms.gle/FXkuSUDeEZgrs488>

**Registration Fee:**

**Rs 300/- per participant.**

**Method of Payment:**

**Transfer through Google pay or any  
UPI Interface to +91-9941372568.**

### COURSE AGENDA (Time: All days from 6pm-8pm)

| Day No | Date & Time          | Hours | Topic & Duration  | Speaker  |
|--------|----------------------|-------|---|--|
| 1      | 30/3/21<br>Tuesday   | 2     | Introduction to MATLAB, the toolboxes available and Features of Campus Wide License   | Mr. Dhiraj Jagtap, MathWorks, DesignTech Systems Pvt. Ltd.   |
| 2      | 31/3/21<br>Wednesday | 2     | Getting Started -- Overview of the course. Entering MATLAB commands, importing and saving data, and using the MATLAB documentation.   | Mr. Milind Khanderao, MathWorks, DesignTech Systems Pvt. Ltd.  |
| 3      | 1/4/21<br>Thursday   | 2     | Plotting and Common Modifications<br>Create plots of vector data. Modify, annotate, and export plots.   | Mr. Suraj Gawande, MathWorks, DesignTech Systems Pvt. Ltd.   |
| 4      | 3/4/21<br>Saturday   | 2     | Working with Live Scripts -- Create, use, format, and share live scripts.   | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 5      | 5/4/21<br>Monday     | 2     | Creating and Manipulating Arrays -- Create, combine, and reshape arrays.  | Mr. Ravindar Reddy, MathWorks, DesignTech Systems Pvt. Ltd.  |
| 6      | 6/4/21<br>Tuesday    | 2     | Accessing Data in Arrays -- Extract subsets of arrays, and modify elements in an array.   | Mr. Ravindar Reddy, MathWorks, DesignTech Systems Pvt. Ltd.  |
| 7      | 7/4/21<br>Wednesday  | 2     | Mathematical and Statistical Operations with Arrays -- Use arrays as mathematical objects or as collections of (vector) data. Understand the appropriate use of MATLAB to distinguish between these applications. | Mr. Dhiraj Jagtap, MathWorks, DesignTech Systems Pvt. Ltd.   |
| 8      | 8/4/21<br>Thursday   | 2     | Visualizing Data in 2D and 3D -- Identify and use plot types for 2D and 3D visualization. Modify plot properties.   | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 9      | 9/4/21<br>Friday     | 2     | Conditional Data Selection -- Extract and analyze subsets of data that satisfy given criteria.  | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 10     | 10/4/21<br>Saturday  | 2     | Tables of Data -- Import data as a MATLAB table. Work with data stored as a table.  | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 11     | 12/4/21<br>Monday    | 2     | Preprocessing Data -- Perform typical data preprocessing tasks in MATLAB, including normalizing data and dealing with missing data.   | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 12     | 15/4/21<br>Thursday  | 2     | Common Data Analysis Techniques<br>Perform common data analysis tasks in MATLAB, including smoothing data and fitting polynomials.  | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 13     | 16/4/21<br>Friday    | 2     | Programming Constructs -- Create flexible code that can interact with the user, make decisions, and adapt to different situations.  | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 14     | 17/4/21<br>Saturday  | 2     | DIP Essentials for MATLAB Programming   | Dr. N. Venkateswaran, Professor, Department of ECE, SSN College of Engineering, Chennai.   |
| 15     | 19/4/21<br>Monday    | 2     | Image Processing using MATLAB Part-I  | Ms. L. Anju & Ms. K. Srividhya, Assistant Professor, Dept of ECE, SVCE   |
| 16     | 20/4/21<br>Tuesday   | 2     | Image Processing using MATLAB Part-II   | Ms. D. Menaka & Ms. S. Kalyani, Assistant Professor, Dept of ECE, SVCE   |
| 17     | 21/4/21<br>Wednesday | 2     | DSP Essentials for MATLAB programming   | Dr. V. Kamatchisundari, HOD Incharge, Department of Electronics and Computer Engineering, SRM Institute of Science & Technology, Ramapuram, Chennai. |
| 18     | 22/4/21<br>Thursday  | 2     | DSP using MATLAB Part-I   | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 19     | 23/4/21<br>Friday    | 2     | DSP using MATLAB Part-II  | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 20     | 24/4/21<br>Saturday  | 2     | Transmission Line Essentials for MATLAB programming   | Dr. M. Ganesh Madhan, Professor & Head, Department of Electronics Engineering, Madras Institute of Technology, Chromepet, Chennai.                   |
| 21     | 26/4/21<br>Monday    | 2     | High Frequency Analysis using MATLAB Part-I   | Dr S Piramasubramanian, Associate Professor, Department of ECE, MIT.   |
| 22     | 27/4/21<br>Tuesday   | 2     | High Frequency Analysis using MATLAB Part-II  | Dr P Ashok, Assistant Professor, Department of ECE, SVCE   |
| 23     | 28/4/21<br>Wednesday | 2     | GUI/App Development using MATLAB  | Mr K Venkatesh, Assistant Professor, Department of ECE, SVCE   |

Dr. M. GANESH MADHAN  
Professor, Department of Electronics Engineering  
E-Mail ID : [mganesh@annauniv.edu](mailto:mganesh@annauniv.edu)

Present Position Professor, Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai from January-2009.

Present Additional Responsibility Professor In-charge Mit Library, Library MIT, Anna University, Chennai from July-2010.

#### Previous Positions

Associate professor, Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai during January-2006 and December-2008.

Assistant Professor, Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai during July-2002 and December-2005.

Lecturer, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai during December-1995 and July-2002.

#### Other Employment

CSIR Junior Research Fellow, Anna University, College of Engineering Guindy for July 1995 to December 1995.

#### Degree

M.E. in OPTICAL COMMUNICATIONS, COLLEGE OF ENGG GUINDY, ANNA UNIVERSITY (1993 - 1995).

B.E. in ELECTRONICS AND COMMUNICATION ENGG , GOVT COLLEGE OF ENGINEERING, TIRUNELVELI, MADURAI KAMARAJ UNIVERSITY (1989 - 1993).

Ph.D. in PHOTONICS from Faculty of INFORMATION AND COMMUNICATION ENGINEERING, COLLEGE OF ENGG GUINDY, ANNA UNIVERSITY (1995 - 2000).

Title: CIRCUIT SIMULATION OF OPTICAL BISTABILITY IN SEMICONDUCTOR LASERS (Jointly Supervised by Prof.P.R.Vaya, Dept of Electrical Engg,IIT Madras).

#### Area of Specialisation

OPTO ELECTRONIC DEVICES, OPTICAL COMMUNICATIONS, RF SYSTEMS

#### Membership in Professional Organization

ISTE, Instrument society of India

Indian laser association, Optical Society of india

EMC society of India IETE (India)

Institution of Engineers (India) Sigma Xi,USA (2002- 2007)

#### Research Guidance

Number of Ph.D Scholars Guided : 3

Number of Ph.D Scholars Guiding : 8

Number of M.S (By Research) Students Guided : 1

Number of M.E./ M.Tech. Projects Guided : 20

Number of M.E./ M.Tech. Projects Guiding : 1

Number of M.S (By Research) Students Guiding as Joint-Supervisor : 1

Papers Published in Journals Research Papers Published in International Journals : 61

Research Papers Published in National Journals : 1

Dr. S.PIRAMASUBRAMANIAN  
Assistant Professor,  
Department of Electronics Engineering  
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Old Perungalathur, Chennai 600063

#### Present Position

Assistant Professor, Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai from October-2008.

#### Previous Positions

Lecturer, Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai during March-2005 and October-2008.

#### Other Employment

Lecturer, Madha Engineering College, Kundrathur, Chennai for 1 Year 3 Months 24 Days.  
Lecturer, Thiru Seven Hills Polytechnic, Maduravoyal, Chennai for 3 Years and 10 Months.

#### Degree

M.E. in Optical Communication, College of Engineering, Guindy, Anna University, Anna University, Chennai (2001 - 2003).

B.E. in ELECTRONICS AND COMMUNICATION ENGG , Arulmigu Kalasalingam College of Engineering, Srivilliputhur, Madurai Kamaraj University (1993 - 1997).

Research Degree Ph.D. in Optical communication, Optoelectronics from Faculty of Information and Communication, Madras Institute of Technology Campus, Anna University, Chennai (2006 - 2014).

Title: Novel distortion reduction and pulse generation schemes in gain lever laser diode. .

#### Area of Specialisation

Optical Communication, Optoelectronics, RF Photonics and RF Engineering

#### Membership in Professional Organization

Member of Institution of Electronics and Telecommunication Engineers (IETE)

Qualified in GATE 2001

Member of Society of EMC Engineers

#### Research Guidance

Number of Ph.D Scholars Guiding : 5

Number of M.E./ M.Tech. Projects Guided : 13

Number of M.E./ M.Tech. Projects Guiding : 2

Papers Published in Journals Research Papers Published in International Journals : 20

Research Papers Published in National Journals : 1

1. S.Piramasubramanian and M.Ganesh Madhan, " Numerical Simulation of Gain Lever Laser Diode and Performance Prediction for 900 MHz RF signal Transmission ", Procedia Engineering, published by ELSEVIER. Vol. 30, pp. 874-880 (2012).

2. S Piramasubramanian and M Ganesh Madhan, " A novel distortion reduction scheme for multiple quantum well gain lever laser diodes", Journal of Optics, published by Institute of Physics (IOP) Publishing,UK. Vol. 15, Issue 5, pp. 055501(8pp) (2013).
3. S.Piramasubramanian and M.Ganesh Madhan, " Numerical analysis and optimization of gain lever and distortion in 1.3  $\mu\text{m}$  bisection quantum well laser diode for 2.4 GHz radio over fiber applications ", Journal of Optoelectronics and Advanced Material , published by National Institute of Optoelectronics (INOE 2000). Vol. 16, Issue 1, pp. 93-101 (2014).
4. S.Piramasubramanian and M. Ganesh Madhan, "Simultaneous reduction of IMD3 and IMD5 in bisection laser diode by feedback second harmonic injection", Optics Communications, published by ELSEVIER. Vol. 328, Issue 1, pp. 151-160 (2014).
5. S. Piramasubramanian ,M Ganesh Madhan Jyothsna Nagella and G.Dhanapriya, "Numerical Analysis of Distortion Characteristics of Heterojunction Bipolar Transistor Laser", Optics Communications, published by Elsevier. Vol. 357, pp. 177-184 (2015).
6. S. Piramasubramanian and M Ganesh Madhan, "Analysis of the effect of optical confinement factor on the distortion performance of gain lever laser diode", Optik- International Journal for Light and Electron Optics, published by Elsevier. Vol. 126, pp. 4278-4284 (2015).
7. S.Piramasubramanian and M.Ganesh Madhan, "Numerical analysis of extinction ratio improvement in gain lever laser diode ", Optoelectronics and Advanced Material - Rapid Communications, published by INOE. Vol. 11, Issue 5, pp. 285-288 (2017).

## Dr P ASHOK

M.E., PGDBA, Ph.D., MISTE

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ORCID ID: [0000-0002-5859-6041](https://orcid.org/0000-0002-5859-6041)

Scopus ID: [57189032432](https://scopus.com/authorid/57189032432)

Web of Science Researcher ID: [AAP-8506-2020](https://www.researcherid.com/rid/AAP-8506-2020)

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Email (Alternate) : [ashokp2k4@gmail.com](mailto:ashokp2k4@gmail.com)

**Objective** To project engineering as realistic fun through teaching and make a notable contribution in research through the knowledge gained in my sterling academic career and a rewarding professional career.

### Educational Qualification

| Course      | Board / University                                 | School / College   | Year of Graduation | Aggregate Marks (%) |
|-------------|--|--|--------------------|---------------------|
| Ph.D.,      | Anna University                                    | Madras Institute of Technology<br>(07/2013 – 07/2020)<br>Area: <b>Quantum Cascade Lasers</b> | 2020               | --NA--              |
| M.E., (C&N) | Anna University                                    | Madras Institute of Technology   | 2011               | 9.78 (CGPA)         |
| PGDBA(HR)   | Symbiosis Centre<br>for Distance<br>Learning, Pune | Symbiosis University, Pune   | 2011               | 65                  |
| B.E., (ECE) | Anna University                                    | SRM Engineering College  | 2006               | 90.00               |

### Professional Work Experience

| Company | Duration    | Designation       | Domain          | Experience       |
|---------|-------------|-------------------|-----------------|------------------|
| Infosys | Jun06-Aug09 | Software Engineer | DSL & Broadband | 3 Years 2 Months |

### Teaching Experience

| Institution   | Tenure                      | Duration  | Designation         |
|---|-----------------------------|-----------|---------------------|
| Sri Venkateswara College of<br>Engineering (Autonomous), Chennai. | 2/11/2020 to Till<br>Date   | 1 Month   | Assistant Professor |
| Prince Shri Venkateshwara<br>Padmavathy Engg College, Chennai     | 13/12/2012 to<br>19/10/2020 | 7.8 Years | Assistant Professor |
| MIT, Chromepet  | 21/01/2013 to<br>30/10/2015 | 2.8 Years | Guest Faculty       |
| Apollo Engineering College  | 06/06/2011 to<br>12/12/2012 | 1.5 Years | Assistant Professor |

### Subjects of Interest

|                                |                             |                            |
|--------------------------------|-----------------------------|----------------------------|
| Transmission Lines & Networks  | Antennas & Wave Propagation | RF & Microwave Engineering |
| Electromagnetic Fields & Waves | Optical Communication       | Wireless Networks          |
| Signals & Systems              | Digital Signal Processing   | Wireless Communication     |

### Other Areas of Interest

- Regular participant in National and International conferences organized within India by IITs and NITs.
- Regular Participation in workshops/seminars/Faculty Development Programs/Short Term Training Programs organized by educational, R&D institutions.
- 12 highly impactful research papers in SCI/E journals of international repute.
- 1 book chapter in Springer Proceedings in Physics.
- Completed certificate courses from NPTEL, Udemy, Cisco Networking Academy, MATLAB, Elsevier and INTEL.
- Active SPOC for 4 years between NPTEL and PSVPEC.

- One Indian Patent (202011050686A) filed on “REAL TIME MONITORING AND TRACKING OF MOTOR VEHICLES USING IOT”.
- Member of various professional societies all over the world, ISTE, IAENG to name a few.
- Regular Reviewer in Leading Journals of international repute.
- Regular Reviewer in National and International Conferences.

### **Hobbies**

- Being a Sai devotee, I actively take part in all Service activities that aim at bringing upliftment of the poor & downtrodden and ultimately the needed transformation in them.
- Being a trained faculty of SSSSO, I feel proud and satisfied in taking Balvikas classes for the children aged 12-17 thereby mould their character, make them patriotic and successful citizens of India.
- Other hobbies include listening to music, bhajans, singing, reading spiritual books and updating my knowledge quotient whenever possible.
- I give Spiritual Discourses regularly on Religious Topics and an excellent vocal singer at Devotional Song Concerts.

### **Achievements**

1. Gold Medalist in M.E., (University First).
2. Won 2 Alumni Gold Medals in MIT for best performance and best outgoing student after completing my M.E.,
3. Gold Medalist in B.E., and Anna University 8<sup>th</sup> Rank in TamilNadu.
4. Organized various guest lectures for third and final year students with distinguished faculties from MIT, CEG and IIIT-DM (Kanchipuram).
5. Received “**CERTIFICATE OF OUTSTANDING CONTRIBUTION IN REVIEWING**”, in July 2017 from the Journal of INFRARED PHYSICS AND TECHNOLOGY, Elsevier, Amsterdam, The Netherlands.

### **Strengths**

1. Have maintained a good rapport with Professors in MIT, Anna University. I can bring them for guest lectures, seminars, workshops at any time.
2. A Good Team Player with Effective Communication Skills. I can guide the students strongly in technical areas, develop innovative ideas and implement projects that will bring out students’ creativity and technical skills.
3. I can guide the students to success in competitive technical exams like GATE.

### **REFERENCES**

- Dr. M. Ganesh Madhan, Professor and Head, Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai 600044. Contact: +91-9444036383.
- Dr. S. Subburam, Professor and Head, Department of Computer Science and Engineering, New Prince Shri Bhavani College of Engineering and Technology, Chennai 600073. Contact: +91-9840514185.

### **DECLARATION**

I hereby declare that the above furnished information is true to the best of my knowledge and belief.

Date : 16-FEB-2021

Place : Chennai

SIGNATURE



Ms L Anju  
Assistant Professor, Department of ECE, SVCE.  
Room No. 14-303  
Intercom No. 27152000 ext:229  
Email Id (Official) anju@svce.ac.in  
Areas of Interest Signal Processing

Qualification  
Pursuing Ph.D at Anna University, Chennai.

M.E-Applied Electronics  
College of Engineering,  
Anna University

M.B.A-Human Resource Management  
Madurai Kamaraj University

Bachelor of Engineering (ECE), I.R.T.Tech,  
Bharathiar University

#### Previous Experience

- Worked as Lecturer in PSN College of Engineering & Technology in the department of Electronics & Communication Engineering from Dec 2002 to October 2004.
- Worked as Lecturer in Sri Venkateswara College of Engineering, Pennalur in the department of Electronics & Communication Engineering from June 2005-May 2010.
- Working as Assistant Professor in Sri Venkateswara College of Engineering, Pennalur in the department of Electronics & Communication Engineering from June 2010 onwards.

#### International Journals:

- Rajalakshmi.P, Anju.L, Estimation of Noise Power Spectrum and Automatic Speaker Recognition System in International Journal of Advanced Research in Computer and Communication Engineering, Vol. 6, Issue 5, May 2017.
- Rajalakshmi.P, Anju.L, Feature Extraction and Speaker Identification in Automatic Speaker Recognition System, in International Journal of Innovative Research in Computer and Communication Engineering, Vol. 5, Special Issue 3, April 2017.
- KrishnaPriya.S, Anju.L, Musical Source Clustering and Raga Identification, in International Journal of Innovative Research in Computer and Communication Engineering, Vol. 5, Special Issue 3, April 2017.
- Kesavan Namboothiri T, L Anju, Efficient Audio Retrieval using SVM and DTW techniques, in International Journal of Emerging Techniques in Computer Science & Electronics, Volume 23, Issue-2, pg no.60, June 2016.
- Kesavan Namboothiri T, L Anju, Efficient Audio Retrieval using Supervised Techniques, in International Journal of Engineering Research & Technology, Volume 4, Issue-14, Page no. 47, April 2016.
- Punithavathi.R, L.Anju, Real Time implementation of audio signal processing applications using Simulink models and DSK 6713, in International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10, No.20, pg no.18370, 2015.



- Rashmi V Nathan ,L.Anju ,Image Hiding using HIS Color Transformation via secret fragment visible mosaic image in International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10, No.20,pg no.16623,2015.
- T.Swetha,L.Anju.,”Image Compression using Improved Seam Carving with Hybrid Compression Technique” in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol.3, Special issue 2, April 2014,ISSN:2320 -3765
- T.Swetha,L.Anju “Retargeted Image Compression using wavelet codec” in International Journal of Advanced Research in Computer Science and Software Engineering, Vol.4, Issue 3, March 2014,ISSN: 2277 128X

#### International Conferences:

- Kesavan Namboothiri T, L Anju “Efficient Audio Retrieval using SVM and DTW techniques”, in International Conference on Innovative and Emerging Trends in Engineering and Technology, May 2016.
- Punithavathi.R, L.Anju “Real Time implementation of audio signal processing applications using Simulink models and DSK 6713”, in IEEE sponsored 2nd International conference on Innovations in Information Embedded and Communication Systems,ICIIECS-15.
- Rashmi V Nathan ,L.Anju ,”Image Hiding using HIS Color Transformation via secret fragment visible mosaic image” in IEEE sponsored 2nd International conference on Innovations in Information Embedded and Communication Systems,ICIIECS-15.
- Vinothini, A, Anju, L, “Secure and lossless data hiding by histogram shifting and scan paths using integer wavelet transform,” Information Communication and Embedded Systems (ICICES), 2014 International Conference on , vol., no., pp.1,5, 27-28 Feb. 2014, ISBN:978-1-4799-3835-3; doi: 10.1109/ICICES.2014.7033984
- A.Vinothini,L.Anju.,”Encrypted Image hiding in Approximation and Details band using IWT “in International conference on Recent trends in Information Technology, ISBN No:978-1-4799-4989-2/14

#### National Conferences:

- Anju L, Amrutha M, Arthy S, Balaji Arul SelvanS,”An efficient algorithm for Noise reduction and Speech enhancement” ,in National Conference on Communication and Informatics(NCCI-2018),May 2018.
- Presented a paper titled Analysis of modified k means algorithm for effective clustering of noisy images in National Level conference on recent trends in Electronics Control and Instrumentation,St.Joseph’s college of Engineering on 16th April 2011.
- Y.Deepak Kumar, D.Pradeep, L.Anju., “Electronic corrector by color identification and processing based on matlab -arduino interfacing” in National Conference on advanced computing(NCAC’13), March 2013
- Presented a paper in National Conference on advanced computing(NCAC’13) titled “Facial expression recognition for smart control of home appliances”
- T.Swetha,L.Anju.,”Image compression using improved seam carving technique incorporated with SPIHT codec” in National Conference on Communication,Information and Telematics, March 2014

## ACADEMIC PROFILE

**Dr. V KAMATCHI SUNDARI**

**Associate Professor**

**Department of ECE**

**SRM Institute of Science and  
Technology,**

**Ramapuram, Chennai**

Mobile No : + 91 9952041393

E mail : [kamatchv@srmist.edu.in](mailto:kamatchv@srmist.edu.in)



**Dr.V.Kamatchi Sundari** is a Associate Professor in the Department of Electronics & Communication Engineering at SRM Institute of Science and Technology, Ramapuram, Chennai. She holds a Master's Degree in Applied Electronics from Anna Univeristy and Ph.D in Image Processing from Sathyabama University, Chennai. After obtaining her B.E. Degree in 1995, she started her career as a Lecturer in Electronics & Communication Engineering and was associated with some of the established Engineering Colleges in Tamilnadu before she was selected for the AICTE sponsored Quality Improvement Programme for Engineering Teachers to do her PG Course in 2005.

With a lot of interest in teaching profession, she has been involved in teaching and guiding students at UG and PG levels during her entire career. Her areas of interest include **Electronic Circuits, Signals & Systems, Digital Signal Processing and Digital Image Processing**. She has participated in several seminars, workshops and Faculty Development Programmes to upgrade her knowledge consistently in various courses she handled. She has been actively involved in motivating the students to further expand their knowledge apart from the regular curriculum to work on some innovative projects and guided them in their projects leading to conference presentations.

She has published three patents namely

**Intelligent Tracking System for Vehicles**

**Internet of Things based Toggler Device for Hybrid Vehicle Powerpack**

and

**Internet of Things based Controller Design for Hybrid Autotronic Applications.**

She has published two books.

She has more than 20 publications to her credit which are published in several reputed national and international journals.

She is a Life Member in the Indian Society of Technical Education, International Association of Engineers and Institution of Electronics and Telecommunication Engineers and a Certified ISO Auditor. She has coordinated various academic activities including Conferences, Workshops, Faculty Development Programmes, University Examinations, Session Chair in conference and speaker in Webinar& FDP etc.

# RESUME

KANAGALURU VENKATESH  
T.A,  
Anna University,  
Chennai.

Mobile No: 9940392517

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## CAREER OBJECTIVE:

To serve an organization where my skills and capabilities would be explore in the best way for the organization benefit as well as my career.

## EDUCATIONAL QUALIFICATION:

| Course | Institution                           | Board/University                 | Year of Completion | Percentage |
|--------|---------------------------------------|----------------------------------|--------------------|------------|
| Ph.D   | C.E.G, Anna university, Chennai       | Anna University                  | Pursuing           | -          |
| M.E    | C.E.G, Anna University, Chennai.      | Anna University, Chennai         | 2014               | 76         |
| B.Tech | Audisankara College of Engg. & Tech   | JNTUA University, Andhra Pradesh | 2011               | 73.32      |
| MPC    | Vivekananda junior and degree college | Board of Intermediate A.P        | 2007               | 93.33      |
| SSC    | Govt. model high school               | Board of S.S.C A.P               | 2005               | 78.66      |

## PROFESSIONAL EXPERIENCE:

| S.No | Designation         | College                                    | Service  |            |
|------|---------------------|--|----------|------------|
|      |                     |  | From     | To         |
| 1    | Assistant Professor | Jerusalem College Of Engineering, Chennai. | 25/06/14 | 10-06-2019 |
| 2    | Technical Assistant | Anna University                            | 11/06/19 | Till date  |

## PUBLICATIONS:

### International journal:

- Published a paper entitled “Sleep Stages Classification Using Neural Network with Single Channel EEG” in International Journal of Recent Advances in Engineering & Technology.
- Published a paper entitled “Amyotrophic Lateral Sclerosis Patient Communication using LabView” in International Journal of Scientific Research and Review.

**National journal:**

- Published a paper entitled “Sleep Stages Classification using Artificial Neural Network” in the year 2015 in Indian journal of Science and technology.

**International Conference:**

Presented a paper entitled “Sleep Stages Classification Using Neural Network with Single Channel EEG” in International Journal of Recent Advances in Engineering & Technology at Bangalore.

**PROJECTS:****B.E-Projects:**

- Mini project
  - Automatic rail way gate control.
- Main project
  - GSM based supervisor control of data acquisition system.

**M.E-project**

- Automatic sleep stage classification using neural network

**AREA OF INTREST:**

- Signal processing
- Image processing
- Instrumentation and embedded systems

**PROGRAMING LANGUAGE KNOWN:**

- C-language
- Basics in java
- Embedded C

**SOFTWARES KNOWN:**

- LABVIEW
- MATLAB
- ARDUINO

**CO-CURRICULAR ACTIVITIES:**

- Got training on MEDICAL EMBEDDED SYSTEMS in DRDO, DEBEL, Bangalore.
- Presented GSM based supervisor control and data acquisition system project in national level conference and got second place.

**ACHIEVEMENTS:**

- Got 431 GATE score in 2015 GATE examination.
- Got best paper award for presenting a paper titled “Sleep Stages Classification Using Neural Network with Single Channel EEG” in International Journal of Recent Advances in Engineering & Technology at Bangalore.

**SPORTS:**

- Won first place in the intra college level volleyball competition.

**PERSONAL PROFILE:**

**Father’s Name** : Mr. K. chinnaiah  
**Date of Birth** : 20-01-1990  
**Nationality** : Indian  
**Mother tongue** : Telugu  
**Languages known** : English, Telugu, Tamil.  
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**Reference:**

1. Dr. M. SASIKALA, associate professor, Department of ECE, Anna University, CEG campus, Chennai.
2. Dr. S. POONGUZHALI, assistant professor, Department of ECE, Anna University CEG campus, Chennai

**DECLARATION:**

I do hereby declare that the particulars of information and facts stated here in above are true, correct and complete to the best of my knowledge and belief.

(VENKATESH K)

Place: Chennai

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Dr. N. Venkateswaran obtained his PhD from Anna University, Chennai in information and communication for his thesis in the area Image Compression and earlier obtained his MTech degree in Communication Systems from Pondicherry Engineering College, Pondicherry University. In June 2010, he joined ECE department of SSN College of Engineering. Earlier to joining SSN, he was Professor at Sri Venkateswara College of Engineering, Sriperumbudur and served for 13 and a half years. He has more than 23 years of experience in teaching, research and in addition 8 years of experience in the industry. He has taught many undergraduate and postgraduate courses. He designed a few courses for the autonomous curriculum.

Professor Venkateswaran is the author of many research articles and two book chapters in Springer. His research contributions have been in the area of intelligent signal processing for an efficient understanding of information. He has authored or co-authored over 100 papers in National and International Journals and Conferences. He actively involved in the Professional Societies the IEEE -SPS and the IETE, India. He chaired a technical session in IEEE TENCON 2016, Singapore. He has organized and conducted four FDP Programmes and One National Conference. He is serving as a member of various international technical committees and review panels. He has graduated 5 Ph.D. students, who are now at leadership positions in academia. He is currently supervising four Ph. D scholars. He is a research supervisor in the Field of Image and Signal Processing, Computer Vision, Deep Learning, ML and IoT, GIS, Wireless communication and Optimization techniques. As a principal investigator, currently involved in an ISRO -SAC funded project and completed three other projects funded by SSN Institutions.

Membership in Professional Bodies:

- Senior Member of the Institution of Electrical and Electronics Engineers.
- Member of Signal Processing Society, IEEE.
- Fellow of the Institution of Electronics & Telecommunications Engineers, New Delhi.

Ph. D Research Supervision:

Number of Ph.D. Awarded – Five

Number of Ph.D. Currently supervising – Four.

MTech thesis Guided – 28

External Funded Research Project

Title: Development of fusion algorithms for remotely sensed satellite images in cartographic applications

Organization: Indian Space Research Organization (ISRO), SAC

Sanctioned Amount: 14.29 Lakhs

Period: DEC-2019 – NOV-2021: Status: In Progress

Role: Principal Investigator.

SSNI Faculty Funding Research Project

Title: Design and Modelling of 3D-orthotic braces using computer vision

Organization: SSN Institutions



Sanctioned Amount: 0.80 Lakhs  
Period: NOV-2017 – OCT-2018: Status: Completed  
Role: Principal Investigator.

#### SSNI Faculty Funding Research Project

Title: Development of Computer-aided Analysis for the diagnosis of Ocular diseases using IR thermal imaging

Organization: SSN Institutions

Sanctioned Amount: 2.80 Lakhs

Period: NOV-2018 – OCT-2020: Status: In progress

Role: CO- Principal Investigator.

#### SSNI Student Funding Research Project

Title: Agricultural soil analysis using image processing

Organization: SSN Institutions

Sanctioned Amount: 0.22 Lakhs

Period: DEC-2015 – NOV-2016: Status: Completed

#### Selected Publications

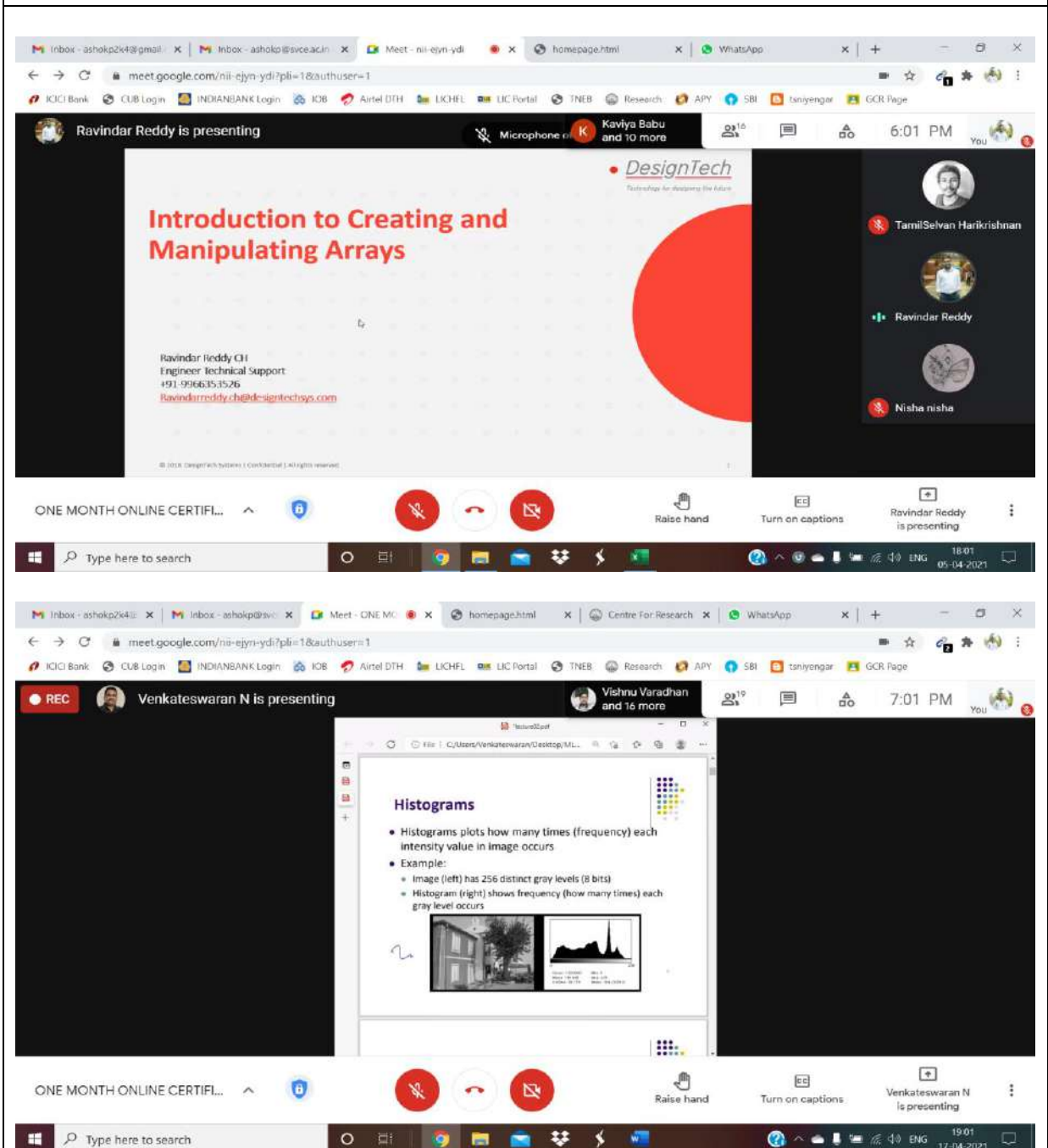
- Madura Meenakshi, N.Padmapriya, N.Venkateswaran: Fuzzy SVM based pre-processing technique for infrared (IR) thermal images, *J. Intell. Fuzzy Syst.* 38(4): 4273-4286 (2020) View details DOI:10.3233/JIFS-190860
- Angeline Beulah, N. Venkateswaran: Sparse linear array in the estimation of AoA and AoD with high resolution and low complexity, *Trans. Emerg. Telecommun. Technol.* 31(4) (2020) View details DOI: 10.1002/ett.3840
- N Venkateswaran, W Jino Hans, Padmapriya: 3D design of orthotic casts and braces in medical applications, *Journal of Advances in Materials and Processing Technologies*, Taylor & Francis (2020) View details DOI: 10.1080/2374068X.2020.1754743
- Jino Hans, V Sherlin, N.Venkateswaran : On-Road Deer Detection for Advanced Driver Assistance using Convolutional Neural Network, *International Journal of Advanced Computer Science and Applications*, Vol. 11 No.4, (2020) View details DOI: 10.14569/IJACSA.2020.0110499
- Madheshwari K, N. Venkateswaran: Optimal fusion aided face recognition from visible and thermal face images, *Multimedia Tools and applications*, Springer, (2020). View details DOI: 3390/s150817944
- Bharath Raj N., Anand Subramanian, Kashyap Ravichandran, N. Venkateswaran: Exploring Techniques to Improve Activity Recognition using Human Pose Skeletons. *WACV Workshops* (2020): 165-172. (open access)
- Kavitha, N. Venkateswaran: An Ultra-Thin Triple-Band Polarization-Independent Wide-Angle Microwave Metamaterial Absorber, *PLASMONICS*, 4, 1983–1991(2019)View details DOI: 10.1007/s11468-019-00985-y
- Muthu Lekshmi V, S Harish Kumar K, N. Venkateswaran: Efficient Computation of Sparse Spectra using Sparse Fourier Transform, *Emerging Trends in Computing and Expert Technology*, LNDECT, vol. 35, Book chapter Springer (2019) View details DOI:1007/978-3-030-32150-5\_85
- Madheshwari K, N. Venkateswaran: An optimal weighted averaging fusion strategy for remotely sensed images, *Syst. Sign. Process.* 30(4): 1911-1935 (2019) View details DOI: 10.1007/s11045-019-00636-9

**REPORT ON THE ONE MONTH ONLINE CERTIFICATE COURSE ON “COMPLETE  
MATLAB ESSENTIALS LEADING TO APPLICATION DEVELOPMENT” ORGANIZED BY  
DEPARTMENT OF ECE, SVCE IN ASSOCIATION WITH IETE-SF, SVCE AND  
MATHWORKS**

|  |   |
|--|---|
| <b>Event Name</b>                      | One Month Online Certificate course on “COMPLETE MATLAB ESSENTIALS LEADING TO APPLICATION DEVELOPMENT”  |
| <b>Centre (name)</b>                   | IETE-SF, SVCE, Chennai  |
| <b>Venue (College/Institute)</b>       | Conducted through Virtual mode (Google meet)  |
| <b>Date &amp; Time</b>                 | 30/3/2021 to 28/4/2021, 6-8pm (daily)   |
| <b>Invited Speakers</b>                | <p>Speakers from Mathworks, DesignTech Systems Pvt Ltd:</p> <ul style="list-style-type: none"> <li>• Mr. Dhiraj Jagtap</li> <li>• Mr. Milind Khanderao</li> <li>• Mr. Suraj Gawande</li> <li>• Mr. Ravindar Reddy</li> </ul> <p>Other External Speakers:</p> <ul style="list-style-type: none"> <li>• Dr. N. Venkateswaran, Professor, Department of ECE, SSN College of Engineering, Chennai.</li> <li>• Dr. V. Kamatchisundari, HOD Incharge, Department of Electronics and Computer Engineering, SRM Institute of Science &amp; Technology, Ramapuram Campus, Chennai.</li> <li>• Dr. M. Ganesh Madhan, Professor &amp; Head, Department of Electronics Engineering, Madras Institute of Technology, Chromepet, Chennai.</li> <li>• Dr. S. Piramasubramanian, Associate Professor, Department of Electronics Engineering, Madras Institute of Technology, Chromepet, Chennai.</li> </ul> <p>Internal Speakers from Department of ECE, SVCE:</p> <ul style="list-style-type: none"> <li>• Dr P Ashok, Assistant Professor.</li> <li>• Ms. L. Anju, Assistant Professor.</li> <li>• Ms. K. Srividhya, Assistant Professor.</li> <li>• Ms. D. Menaka, Assistant Professor.</li> <li>• Ms. S. Kalyani, Assistant Professor.</li> <li>• Mr K Venkatesh, Assistant Professor.</li> </ul> |
| <b>Inauguration (Max. 25 words)</b>    | The one month long online certificate program was inaugurated by Professor & Head of the Department, Department of ECE, Dr. S. Muthukumar, on 30 <sup>th</sup> March 2021. He spoke about the need of complete understanding on the programming languages in ECE domain for understanding the concepts better and also for better job prospects. Also, the first session was taken by Mr. Dhiraj Jagtap of Mathworks highlighting the features of MATLAB, Campus Wide License and basics of MATLAB.   |
| <b>Target Audience for the program</b> | The program received overwhelming response. It was attended by third and final year students of Department of ECE, SVCE and from engineering colleges all over the country. Interested faculty members who wanted to learn MATLAB completely from the scratch for their research prospects also attended the certificate course. A few industry participants who wanted to explore different dimensions of MATLAB also  |

|   |  |
|---|--|
| <p><b>Brief Report including above information (Max. 200 words for Centres/ Sub-Centres&amp; 75 words for ISFs)</b></p> | <p>participated and got benefitted.</p> <p>The one-month long certificate course was planned for 23 days with 2 hours of session per day which covered the complete MATLAB programming basics and last 10 days were spent on application specific MATLAB coding namely Digital Image Processing, Digital Signal Processing, Transmission Lines and Networks, RF and Microwave Engineering, Antennas and Wave Propagation, App Development using MATLAB. Live demo of coding was done before the target audience and they got to know the interesting features of developing applications using MATLAB.</p> |
|---|--|

**Photographs (Max. 3) with short captions  
(Resolution: 300 dpi, format: jpg)**



The screenshot shows a Google Meet interface. At the top, the browser address bar displays the meeting URL: `meet.google.com/nii-eyj-ydi?pli=1&authuser=1`. The meeting title is "Dr.Ganesh Madhan is presenting". The main content is a Microsoft PowerPoint slide with the following text:

Topics of this presentation

- Basics
- Need for Transmission line theory
- Wave behavior in guiding structures
- Transverse Electro Magnetic Waves
- Interactive Demonstration

The bottom of the screen shows the meeting controls, including a search bar, a "ONE MONTH ONLINE CERTIF..." button, and icons for mute, video, and chat. The system tray at the very bottom shows the date and time as 18:06 on 24-04-2021.

Dr P Ashok, AP/ECE  
Course Coordinator

Dr S Muthukumar,  
Professor & Head, Dept of ECE

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| Count |                     |                                | 51 | 47 | 45 |

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| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 38 | 36 | 32 | 37 | 32 | 35 | 31 | 31 | 28 | 26 | 23 | 29 | 27 |

| 21-Apr | 22-Apr | 23-Apr | 24-Apr | 26-Apr | 27-Apr | 28-Apr | Total | % Att | Ex | % Att |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|----|-------|
| P      | P      | P      | P      | P      | P      | P      | 22    | 96    | 4  | 100   |
| P      | P      | P      | A      | P      | P      | P      | 19    | 83    | 0  | 83    |
| P      | A      | P      | A      | A      | A      | A      | 7     | 30    | 0  | 30    |
| A      | A      | A      | A      | A      | A      | A      | 0     | 0     | 0  | 0     |
| A      | A      | A      | A      | A      | A      | A      | 1     | 4     | 0  | 4     |
| A      | A      | P      | A      | A      | P      | P      | 16    | 70    | 0  | 70    |
| A      | A      | A      | A      | A      | A      | A      | 1     | 4     | 0  | 4     |
| P      | P      | P      | P      | P      | P      | P      | 22    | 96    | 0  | 96    |
| P      | A      | A      | P      | P      | P      | P      | 20    | 87    | 0  | 87    |
| A      | A      | A      | A      | A      | A      | A      | 2     | 9     | 0  | 9     |
| A      | A      | A      | A      | A      | A      | A      | 6     | 26    | 0  | 26    |
| P      | P      | P      | P      | A      | P      | P      | 21    | 91    | 0  | 91    |
| A      | A      | A      | A      | A      | A      | A      | 1     | 4     | 0  | 4     |
| P      | P      | P      | A      | P      | P      | P      | 20    | 87    | 0  | 87    |
| A      | A      | A      | A      | A      | A      | A      | 4     | 17    | 0  | 17    |
| P      | P      | P      | P      | P      | P      | P      | 23    | 100   | 13 | 113   |
| A      | A      | A      | A      | A      | A      | A      | 4     | 17    | 0  | 17    |
| A      | A      | A      | A      | A      | A      | A      | 1     | 4     | 0  | 4     |
| P      | A      | A      | P      | A      | P      | P      | 17    | 74    | 4  | 78    |
| P      | P      | P      | P      | P      | P      | P      | 23    | 100   | 0  | 100   |
| A      | A      | A      | A      | A      | A      | A      | 5     | 22    | 0  | 22    |
| A      | A      | A      | A      | A      | P      | P      | 12    | 52    | 4  | 57    |
| A      | A      | A      | A      | A      | A      | A      | 6     | 26    | 0  | 26    |
| P      | P      | P      | P      | P      | P      | P      | 19    | 83    | 17 | 100   |
| A      | A      | A      | A      | P      | P      | P      | 10    | 43    | 0  | 43    |
| P      | P      | P      | P      | P      | P      | P      | 23    | 100   | 0  | 100   |
| A      | A      | A      | A      | A      | A      | A      | 3     | 13    | 6  | 19    |
| A      | A      | A      | P      | A      | A      | P      | 9     | 39    | 0  | 39    |
| A      | A      | A      | A      | A      | A      | A      | 11    | 48    | 0  | 48    |
| A      | A      | P      | A      | P      | P      | P      | 12    | 52    | 35 | 87    |
| A      | A      | A      | A      | A      | A      | A      | 3     | 13    | 6  | 19    |
| A      | A      | A      | A      | A      | A      | P      | 6     | 26    | 0  | 26    |
| P      | P      | P      | P      | P      | P      | P      | 22    | 96    | 0  | 96    |
| P      | P      | P      | A      | P      | A      | A      | 13    | 57    | 0  | 57    |
| A      | A      | A      | A      | A      | A      | P      | 3     | 13    | 4  | 17    |
| A      | A      | A      | A      | A      | A      | A      | 4     | 17    | 0  | 17    |
| A      | P      | P      | P      | A      | A      | P      | 20    | 87    | 0  | 87    |
| A      | A      | A      | A      | A      | A      | A      | 7     | 30    | 0  | 30    |
| A      | A      | A      | A      | A      | A      | A      | 1     | 4     | 0  | 4     |
| A      | A      | A      | A      | A      | A      | A      | 1     | 4     | 0  | 4     |
| P      | A      | A      | A      | P      | A      | P      | 10    | 43    | 4  | 48    |

|    |    |    |    |    |    |    |    |     |    |     |
|----|----|----|----|----|----|----|----|-----|----|-----|
| P  | A  | A  | A  | A  | A  | A  | 8  | 35  | 0  | 35  |
| A  | A  | A  | A  | A  | A  | A  | 5  | 22  | 0  | 22  |
| A  | A  | A  | A  | A  | A  | A  | 2  | 9   | 0  | 9   |
| A  | A  | A  | A  | A  | A  | A  | 5  | 22  | 0  | 22  |
| A  | A  | A  | A  | A  | A  | P  | 12 | 52  | 13 | 65  |
| A  | A  | A  | A  | A  | A  | A  | 3  | 13  | 0  | 13  |
| P  | P  | P  | P  | P  | P  | P  | 23 | 100 | 0  | 100 |
| A  | A  | A  | A  | A  | A  | A  | 3  | 13  | 0  | 13  |
| P  | A  | P  | P  | A  | A  | P  | 19 | 83  | 0  | 83  |
| A  | A  | A  | A  | A  | A  | A  | 3  | 13  | 0  | 13  |
| P  | A  | P  | P  | P  | P  | P  | 17 | 74  | 0  | 74  |
| P  | A  | A  | A  | A  | A  | A  | 8  | 35  | 0  | 35  |
| A  | A  | A  | P  | A  | A  | A  | 3  | 13  | 0  | 13  |
| A  | A  | A  | A  | A  | A  | A  | 4  | 17  | 0  | 17  |
| P  | P  | P  | P  | P  | P  | P  | 23 | 100 | 0  | 100 |
| P  | P  | P  | A  | P  | P  | P  | 20 | 87  | 0  | 87  |
| A  | A  | A  | A  | A  | A  | A  | 11 | 48  | 0  | 48  |
| A  | P  | P  | A  | P  | A  | P  | 14 | 61  | 4  | 65  |
| A  | P  | P  | P  | P  | P  | P  | 21 | 91  | 0  | 91  |
| A  | A  | A  | A  | A  | A  | A  | 8  | 35  | 0  | 35  |
| A  | A  | A  | A  | A  | A  | A  | 1  | 4   | 0  | 4   |
| P  | P  | A  | P  | P  | P  | P  | 22 | 96  | 0  | 96  |
| A  | A  | A  | A  | A  | A  | A  | 7  | 30  | 0  | 30  |
| A  | P  | A  | P  | P  | P  | P  | 20 | 87  | 0  | 87  |
| P  | P  | P  | P  | P  | P  | P  | 23 | 100 | 0  | 100 |
| 24 | 20 | 23 | 21 | 23 | 24 | 32 | 0  |     |    | 0   |



Dr P Ashok, AP/ECE  
Course Coordinator



Dr S Muthukumar  
Professor & Head, Dept of ECE

# Feedback Form for Certificate Course on "COMPLETE MATLAB ESSENTIALS LEADING TO APPLICATION DEVELOPMENT"

Email \*

priyakings2000@gmail.com

Course Registration Number (CRN) \*

210721003

Name of the Participant \*

GOKULAPRIYA.D

Email address of the Participant \*

Priyakings2000@gmail.com

Feedback for the Session on the date \*

MM DD YYYY

03 / 30 / 2021

Technical content of the Session \*

- Excellent
- Very good
- Good
- Fair
- Poor

Communication skills of the Presenter \*

- Excellent
- Very good
- Good
- Fair
- Poor

Was the session topic for the day relevant to what was presented? \*

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

Any Specific Feedback apart from the above questions

Nope

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# Google Forms



S.No. CCA 0117

# SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution : Affiliated to Anna University, Chennai)  
Pennalur, Sriperumbudur Tk. 602117 (TN), India

## CERTIFICATE



This is to certify that the candidate mentioned below has completed the course  
**KE07001 - COMPLETE MATLAB ESSENTIALS LEADING TO APPLICATION DEVELOPMENT**  
conducted by the **Department of Electronics and Communication Engineering** in association with  
**IETE-SF, SVCE and Mathworks.**

**Name** : ATHULYA A S  
**Affiliation** : Karpagam Institute of Technology  
**Affiliation Location** : Coimbatore - 641105  
**Date of Birth** : 23-07-2001  
**Course Registration Number (CRN)** : 210721005  
**Course Duration (in hours)** : 46  
**Attended (in hours)** : 32  
**Course Period** : 30th March to 28th April,2021  
**Competency (%)** : 84.00

The Course content is attached overleaf

Date: 04-Dec-21

Place: Sriperumbudur



This Certificate is valid only with correction  
and Not valid without the seal

  
CONTROLLER OF EXAMINATIONS



ONE MONTH ONLINE CERTIFICATE COURSE ON "COMPLETE MATLAB  
ESSENTIALS LEADING TO APPLICATION DEVELOPMENT"  
ORGANIZED BY  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
COURSE CONTENT

**MATLAB Programming Modules:**

- Introduction to MATLAB, the toolboxes available and Features of Campus Wide License
- Getting Started -- Overview of the course. Entering MATLAB commands, importing and saving data, and using the MATLAB documentation.
- Plotting and Common Modifications -- Create plots of vector data. Modify, annotate, and export plots.
- Working with Live Scripts -- Create, use, format, and share live scripts.
- Creating and Manipulating Arrays -- Create, combine, and reshape arrays. Accessing Data in Arrays Extract subsets of arrays, and modify elements in an array.
- Mathematical and Statistical Operations with Arrays -- Use arrays as mathematical objects or as collections of (vector) data. Understand the appropriate use of MATLAB to distinguish between these applications.
- Visualizing Data in 2D and 3D -- Identify and use plot types for 2D and 3D visualization. Modify plot properties.
- Conditional Data Selection -- Extract and analyze subsets of data that satisfy given criteria.
- Tables of Data -- Import data as a MATLAB table. Work with data stored as a table.
- Preprocessing Data -- Perform typical data preprocessing tasks in MATLAB, including normalizing data and dealing with missing data.
- Common Data Analysis Techniques -- Perform common data analysis tasks in MATLAB, including smoothing data and fitting polynomials.
- Programming Constructs -- Create flexible code that can interact with the user, make decisions, and adapt to different situations.

**Application Oriented Modules:**

- Basics of Digital Image Processing & its applications using MATLAB.
- Basics of Digital Signal Processing & its applications using MATLAB.
- Basics of Transmission Lines, Antennas & its applications using MATLAB.
- MATLAB GUI Development for any generic application.





S.No. CCA 0138

# SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution ; Affiliated to Anna University, Chennai)  
Pennalur, Sriperumbudur Tk. 602117 (TN), India

## CERTIFICATE



This is to certify that the candidate mentioned below has completed the course  
**KE07001 - COMPLETE MATLAB ESSENTIALS LEADING TO APPLICATION DEVELOPMENT**  
conducted by the **Department of Electronics and Communication Engineering** in association with  
**IETE-SF, SVCE and Mathworks.**

**Name** : KARTHIKEYAN C

**Affiliation** : Sri Venkateswara College of Engineering

**Affiliation Location** : Sriperumbudur (off Chennai) Tk. - 602117

**Date of Birth** : 04-12-2000

**Course Registration Number (CRN)** : 210721044

**Course Duration (in hours)** : 46

**Attended (in hours)** : 27

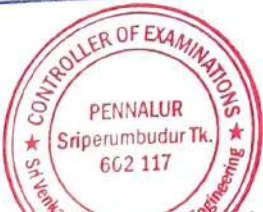
**Course Period** : 30th March to 28th April,2021

**Competency (%)** : 100.00

**The Course content is attached overleaf**

**Date: 04-Dec-21**

**Place: Sriperumbudur**



This Certificate bears no correction  
and Not valid without the seal

*Shammi*  
CONTROLLER OF EXAMINATIONS