



Sri Venkateswara
College of
Engineering

(An Autonomous Institution – Affiliated to Anna University, Chennai)
Sriperumbudur Tk – 602 117, Tamil Nadu



**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

Three Days Physical Mode

Faculty Development Program on

**Deep Learning Techniques for
Image Analysis - Hands on Session**



NVIDIA.

**NVIDIA DEEP LEARNING
INSTITUTE**

CERTIFICATE OF COMPETENCY

3rd - 5th October 2023

Event Schedule

Convener

**Dr.G.A.Sathish Kumar
Professor & Head**



Principal

Dr.S.Ganesh Vaidyanathan

Coordinators

Asst. Prof. A.Prasanth, Asst. Prof. N.Sathish, Asst. Prof. V.Yokesh, Asst. Prof. B.Elakkiya

DEPARTMENT VISION

To excel in offering value based quality education in the field of Electronics and Communication Engineering, keeping in pace with the latest developments in technology through exemplary research, to raise the intellectual competence to match global standards and to make significant contributions to the society.

DEPARTMENT MISSION

- To provide the best pedagogical atmosphere of highest quality through modern infrastructure, latest knowledge and cutting edge skills.
- To fulfill the research interests of faculty and students by promoting and sustaining in house research facilities so as to obtain the reputed publications and patents.
- To educate our students, the ethical and moral values, integrity, leadership and other quality aspects to cater to the growing need for values in the society.

REGISTRATION LINK

<https://forms.gle/HADhiDFTmQc7GDIY7>

RESOURCE PERSONS



Mr.V.Chandran, Senior Associate Data Scientist, TheMathcompany, Bangalore.



**Dr.R.Gayathri, Professor/ECE
Sri Venkateswara College of Engineering**



**Dr.D.Menaka, Associate Professor/ECE
Sri Venkateswara College of Engineering**



**Mr.N.Sathish, Assistant Professor/ECE
Sri Venkateswara College of Engineering**



**Ms.B.Elakkiya, Assistant Professor/ECE
Sri Venkateswara College of Engineering**

From,
Dr.A.Prasanth, Ms.B.Elakiya, Mr.V.Yokesh, Mr.N.Sathish
Assistant Professor,
Department of Electronics and Communication Engineering
Sri Venkateswara College of Engineering,
Pennalur, Sriperumbudur-602117.

To,
The Principal,
Through HoD-ECE,
Sri Venkateswara College of Engineering,
Pennalur, Sriperumbudur-602117.

To: HoD-ECE
Approved
26
19/9

Respected Sir,

Sub: Requisition for change of dates to conduct Offline Faculty Development Program - Reg.

I am writing formally to request a change in the dates scheduled for the upcoming Faculty development Program. As the external resource person have unforeseen circumstances making it impossible for him to be available on the previous mentioned dates. The original dates for the FDP were set on 9th - 11th October 2023, but due to some official commitments, he could not able to make it on the aforementioned days. Based on the resource person availability, we have rescheduled the program to 3rd - 5th October 2023. In this regard, I hereby requesting you to approve the same for the successful conduction of the FDP. I have hereby enclosed the previous approval letter for your kind perusal.

Thank You,

Yours sincerely,

(Dr.A.Prasanth, Mr.B.Elakiya, Mr.V.Yokesh & Mr.N.Sathish)

Forwarded & Recommended for your Consideration
M.
19/9/23

Date: 09-09-2023

From,

Dr.A.Prasanth, Mr.B.Elukiya, Mr.V.Yokesh, Mr.N.Sathish
Assistant Professor,
Department of Electronics and Communication Engineering,
Sri Venkateswara College of Engineering,
Pennalur, Sriperambudur-602117.

To,

The Principal,
Through HoD-ECE,
Sri Venkateswara College of Engineering,
Pennalur, Sriperambudur-602117.

To: HoD-ECE
Approved
SVP
12/9

Respected Sir,

Sub: Requisition to conduct **Offline Faculty Development Program** – Reg.


As part of academics, we are planning to conduct the Faculty Development Program titled "**Deep learning Techniques for Image Analysis – Hands on Session**" on 9th, 10th and 11th October 2023. This FDP will be an eye-opener for the delegates on how to apply Deep Learning Techniques for image analysis. The main objective of this FDP is to acquire delegates, the fruitful knowledge on applying various AI techniques for analysing images with demo and hands-on sessions which is useful for all faculties and research scholars. All participants will be provided with **NVIDIA CERTIFICATION** post completing their assessment. 4 Internal & 1 External (Industry) will act as resource persons for the 3-day sessions.

Proposed Expenditure

S.No	Category	Amount
1	Honorarium and Travel Allowance for External resource person (2 Days)	Rs. 6000/-
2	Tea & Snacks (Rs.30-per person – 2 times/Day)	Rs.1800/-
	Total	Rs. 7800/-

We hereby attached a detailed schedule for the course and sample certificate. In this regard, I hereby request you to permit to conduct this event.

Thank You,


Yours sincerely,

To The Principal
(Dr.A.Prasanth, Mr.B.Elukiya, Mr.V.Yokesh & Mr.N.Sathish)

Forwarded & Recommended for your approval. Pl.

crossair
9/9/23

Day	Time	Topics	Resource Person
DAY-1	9.00 AM - 10.15 AM	Introduction to Deep learning methods and applications	Dr.R.Gayathri Professor/ECE SVCE.
	10.30 AM -12.15 PM	Implementation of Image data processing and analysis	Dr.D.Menaka Associate Professor/ECE SVCE.
	1.00 PM - 2.00 PM	Deep learning architectures	Ms.B.Elakkiya Assistant Professor /ECE SVCE.
	2.15 PM - 3.15 PM	Fundamentals of python	Mr.N.Sathish Assistant Professor /ECE SVCE.
DAY-2	9.00 AM -10.15 AM	Image Processing using Deep Learning Algorithms for Medical Imaging Applications. Demo: Foot Ulcer classification using Machine Learning algorithms.	Mr.V.Chandran Senior Associate Data Scientist, TheMathcompany, Bangalore.
	10.30 AM -12.15 PM	Transfer Learning Approaches Colon Cancer Classification using transfer learning model. Visual Transformer for medical imaging.	Mr.V.Chandran Senior Associate Data Scientist, TheMathcompany, Bangalore.
	2.15 PM - 3.15 PM	Hands on Pulmonary Chest X-Ray Abnormalities detection using GAN and UNET Model for Covid Segmentation.	Mr.V.Chandran Senior Associate Data Scientist, TheMathcompany, Bangalore.
DAY -3	9.00 AM - 10.15 AM	Image Classification using NVIDIA Digits Lab.	Mr.V.Chandran Senior Associate Data Scientist, TheMathcompany, Bangalore.
	10.30 AM -12.15 PM	Object detection Using NVIDIA Digits Lab.	
	1.00 PM - 3.15 PM	Assessment.	

Invitation to be serve as a Resource Person - Regarding

3 messages

Thu, Sep 21, 2023 at 2:17 PM

PRASANTHA ECE <prasantha@svce.ac.in>
To: Chandran Venkatesan <chandranv76@gmail.com>

Dear Sir,

The Department of Electronics and Communication Engineering will be organizing a Three Days Physical mode Faculty Development Program on "Deep Learning Techniques for Image Analysis - Hands on Session" held on October 3-5, 2023. In this regard, I am inviting you to deliver a valuable hands-on session on October 4 and October 5. The detailed topics are as follows:

- 1) Image Processing using Deep Learning Algorithms for Medical Imaging Applications.
- 2) Transfer Learning Approaches Colon Cancer Classification using transfer learning model.
- 3) Hands on Pulmonary Chest X-Ray Abnormalities detection using GAN and UNET Model for Covid Segmentation.
- 4) Image Classification using NVIDIA Digits Lab.
- 5) Object detection Using NVIDIA Digits Lab.

Kindly share your bank details (Account holder name, Account number, Bank name, Branch name, IFSC code).

Thanking you.

--
With regards,

Dr. A.PRASANTH., M.E., Ph.D.,
(Anna University Recognized PhD Supervisor)
Assistant Professor/ECE,
Sri Venkateswara College of Engineering,
Sriperumbudur, Near Chennai, TamilNadu, India.
Contact Number: 9080835896, 9159686372.
Personal Website: <https://sites.google.com/view/draprasanth/home>
Love Ur Parents

Chandran Venkatesan <chandranv76@gmail.com>
To: PRASANTHA ECE <prasantha@svce.ac.in>

Thu, Sep 21, 2023 at 2:34 PM

Hi Dr.Prasanth,

Acknowledged.

Account holder name: Chandran V
Account number: 99980106762649
Bank name: Federal Bank
Branch name: Coimbatore
IFSC code: FDRL0001092

[Quoted text hidden]

--
Thanks & Regards,

Chandran Venkatesan M.E.,
9790827719

PRASANTHA ECE <prasantha@svce.ac.in>
To: Chandran Venkatesan <chandranv76@gmail.com>

Thu, Sep 21, 2023 at 2:37 PM

Thanks for your support sir.

[Quoted text hidden]

--
[Quoted text hidden]

SRI VENKATESWARA COLLEGE OF ENGINEERING
Department of Electronics and Communication Engineering

3 Days Faculty Development Program

DEEP LEARNING TECHNIQUES FOR IMAGE ANALYSIS – HANDS ON SESSION



REPORT OF THE FDP ON

"Deep Learning Techniques for Image Analysis - Hands on Session"

Organized by

Department of Electronics and Communication Engineering,

Sri Venkateswara College of Engineering, Sriperumbudur

Event Name	Three Days FDP on "Deep Learning Techniques for Image Analysis - Hands on Session"
Coordinator	Dr. A. PRASANTH, Assistant Professor/ ECE, SVCE. Mr. N. SATHISH, Assistant Professor/ECE, SVCE. Mr. V. YOKESH, Assistant Professor/ECE, SVCE Ms. B.ELAKIYA, Assistant Professor/ECE, SVCE
Venue (College/Institute)	DSP Laboratory, Department of ECE, Sri Venkateswara College of Engineering, Sriperumbudur
Date & Time	03-10-2023 to 05-10-2023, 9am - 3pm
Invited Speakers	Mr.V.Chandran, Senior Associate Data Scientist, TheMathcompany, Bangalore. Dr.R.Gayathri, Professor/ECE, SVCE. Dr.D.Menaka, Associate Professor/ECE, SVCE Mr. N. SATHISH, Assistant Professor/ECE, SVCE. Ms. B.ELAKIYA, Assistant Professor/ECE, SVCE
Objectives	To acquire delegates, the fruitful knowledge on applying various Deep Learning techniques for analysing images with demo and hands-on sessions.
Target Audience	Faculty Members from SVCE
Brief Report including above information	<p>The FDP was planned for 3 days which covered the following topics:</p> <p>1) Introduction to Deep learning methods and applications <i>Resource Person:</i> <i>Dr.R.Gayathri, Professor/ECE, SVCE.</i></p> <p>The session explored the fundamentals of Deep learning methods and its types. The various applications of Deep learning methods are delivered.</p> <p>2) Implementation of Image data processing and analysis <i>Resource Person:</i> <i>Dr.D.Menaka, Associate Professor/ECE, SVCE</i></p> <p>The data processing and analysis of the image were discussed in this session. Further, the analysis of Images using the filtering techniques was explored.</p>

3) Deep learning architectures

Resource Person:

Ms. BELAKIYA, Assistant Professor/ECE, SVCE

The session deals with the various Deep learning architectures and its significance. It mainly discussed the convolutional neural networks, recurrent neural networks (RNNs), and long short-term memory

4) Fundamentals of python

Resource Person:

Mr. N. SATHISH, Assistant Professor/ECE, SVCE.

The fundamentals of python were discussed in this session. It consists of a discussion of the basic building blocks of the Python programming language.

5) Image Processing using Deep Learning Algorithms for Medical Imaging Applications.

Resource Person:

Mr.V.Chandran, Senior Associate Data Scientist

Demo session was conducted in Foot Ulcer classification using Machine Learning algorithms.

6) Hands on Pulmonary Chest X-Ray Abnormalities detection using GAN and UNET Model for Covid Segmentation.

Resource Person:

Mr.V.Chandran, Senior Associate Data Scientist

The Hands on session was conducted in the domain of Pulmonary Chest X-Ray Abnormalities.

7) Object detection Using NVIDIA Digits Lab.

Resource Person:

Mr.V.Chandran, Senior Associate Data Scientist

The session deals with the fundamentals of the NVIDIA Digits Lab and Object detection models.

8) Assessment

Finally, the participants attended the Assessment test and obtained the NVIDIA DLI Certificate under "Fundamentals of Deep Learning".



Dr.A.Prasanth, AP/ECE
Coordinator



Dr. G A Sathish Kumar,
Professor & Head,
Dept of ECE, SVCE

18	KOUSALYA R	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
19	S. ELANGOVAN	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
20	Dr. P. Vinodhalingam	Asst P	CSE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
21	S. RADHIKA	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
22	S. KALYANI	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
23	Dr. Girija M S	AP	CSE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
24	R. Ishwarya	AP	CSE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
25	D. SHAMBARASAN	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
26	S.P. SIVASUBRAMANIAM	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
27	M. S. VARADARATHNAM	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
28	E. VENKATESH	AP	ECE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
29	S. P. POORANI	AP	CSE	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
30	RUPN KESAVAN	AP	ESQ	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush	Shoush
31										
32										
33										
34										
35										

Shoush
6/12/23

Event Coordinator

Shoush
HOD - ECE



DEEP
LEARNING
INSTITUTE

CERTIFICATE OF COMPETENCY

This NVIDIA DLI Certificate has been awarded to

RAJALAKSHMI S

for the successful completion of
Fundamentals of Deep Learning

Will Ramey

Senior Director, Developer Programs

October 05, 2023

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Three Days Faculty Development Program on " Deep Learning Techniques for Image Analysis - Hands on Session" 03-10-2023 - 05-10-2023

FEEDBACK RESPONSES

Were objectives of the course clear to you?

16 responses



- Yes
- No
- Maybe

The course contents met with your expectations

16 responses



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

The lecture sequence was well planned

16 responses



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

The course contents compared with your expectations

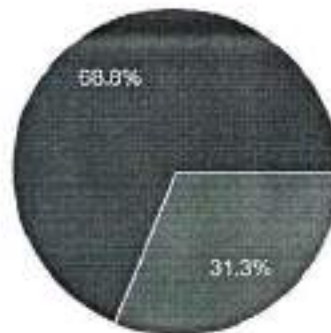
16 responses



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

The course exposed you to new knowledge and practices

16 responses



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

The lectures were clear and easy to understand

16 responses



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

The course material handed out was adequate

16 responses



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

The instructors encouraged interaction and were helpful

16 responses



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


Were objectives of the course realized?

16 responses



- Yes
- No
- Maybe

Total number of Participants : 30


Signature of the Coordinator
(Dr. A. PARASURAM)
AP/ECE


HoD-ECE