

Email Address	Title	Participant Full Name (for the workshop certificate purpose)	Gender	Category	Name of the Institute	Designation	Mobile Number	Transaction/Reference number	Amount paid	Date of Amount paid
yougali@dmscollege.ac.in	Ms.	Yougali Yeshwant Parab	Female	General	Dnyanprassarak Mand	Assistant Professor	8446206651	2.08422E+11	750	25-03-2022
pragyasiddhi0907@gmail.com	Ms.	PRAGYA SIDDHI	Female	General	GREATER NOIDA INS	Assistant Professor	9520692716	T2203301841397646449768	750	30-03-2022
avijaykumarcse@gmail.com	Mr.	Vijay kumar A	Male	OBC	NMREC	Associate Professor	9000780345	T2203311646414947290918	750	31-03-2022
debsntt@gmail.com	Mr.	Debraj Das	Male	General	Raghunathpur Govt. P	Lecture	9933497533	IHQ3067615	750	15-04-2022
prabakad1@srmist.edu.in	Mr.	D.PRABAKAR	Male	OBC	SRM INSTITUTE OF S	Assistant Professor	9486142656	2.11212E+11	750	22-04-2022
shilpa15aneja@gmail.com	Mrs.	Shilpa Gunwant	Female	General	Uttarakhand Open Uni	Research Scholar	8171943084	2.12608E+11	750	06-05-2022
nagaraju_b@vaagdevi.edu.in	Mr.	Nagaraju Budidha	Male	SC	Vaagdevi College of E	Associate Professor	+919949360215	T2205061215369465633522	750	06-05-2022
swathikap@mepcoeng.ac.in	Mrs.	P.SWATHIKA	Female	OBC	Mepco Schlenk Engine	Assistant Professor	9047428267	2.12766E+11	Rs.750	07-05-2022
sr.raikoti@gmail.com	Mr.	Sharanabasappa Raikoti	Male	OBC	Government First Grad	Associate Professor	9164783783	T2205081740105754855972	1000	08-05-2022
vg.cse@kitsw.ac.in	Mrs.	Gouthami. V	Female	OBC	Kits warangal	Assistant Professor	9963309949	T2205101937438253872158	750	10-05-2022
suryaspandey@gmail.com	Ms.	Surya Pandey	Female	General	New Horizon College o	Assistant Professor	09029061771	2.13278E+11	750	12-05-2022
sampath553@gmail.com	Mr.	CHADA SAMPATH REDDY	Male	General	Sree Chaitanya Institut	Assistant Professor	09640828353	T220512143336711147127	750	12-05-2022
ugendhar2008@gmail.com	Dr.	Dr UGENDHAR ADDAGATLA	Male	OBC	GURUNANAK INSTITU	Associate Professor	9989139690	2.13326E+11	750	13-05-2022
jayalakshmi@tkrceet.com	Mrs.	C. Jaya Lakshmi	Female	OBC	TKR COLLEGE OF EN	Assistant Professor	9390909007	T2205131555336614829088	750	13-05-2022
srsriramsrs@gmail.com	Dr.	S R Sriram	Male	General	Easwari Engineering C	Assistant Professor	9487262906	403401807	750	14-05-2022
vanaja.s@eec.srmmp.edu.in	Dr.	S Vanaja	Female	OBC	Easwari Engineering c	Assistant Professor	9094866634	403484031	750	14-05-2022
salimj06@gmail.com	Mr.	Salim Amirali Jiwani	Male	General	Vaagdevi College of E	Associate Professor	9885545514	2.13419E+11	750	14-05-2022
suryaspandey@gmail.com	Ms.	Surya Pandey	Female	General	New Horizon College o	Assistant Professor	09029061771	2.13278E+11	750	12-05-2022
arkmech9@gmail.com	Mr.	Abdul Razak	Male	OBC	P A College of Enginee	Research Scholar	8660018783	00	750	26-06-2022
as.sharma@ggu.ac.in	Mr.	AAKASH SHARMA	Male	OBC	Guru Ghasidas Central	Research Scholar	8376990930	IHQ5746020	750	03-07-2022
mamidala.rama@gmail.com	Mrs.	RAMA MAMIDALA	Female	OBC	Vaagdevi College of E	Assistant Professor	9908557050	CICAgJDArdmRNA	750	08-07-2022
jyothi.botla22@gmail.com	Mrs.	AMRUTHAM NAGAJYOTHI	Female	OBC	Vaagdevi college of en	Assistant Professor	9441930690	CICAgJDArcHKbA	750	08-07-2022
addagudiashwini@gmail.com	Mrs.	Addagudi Ashwini	Female	General	Vaagdevi college of en	Assistant Professor	7981477512	CICAgJDAncXvbw	750	08-07-2022
shreestavannu18@gmail.com	Mrs.	kurna vanaja	Female	OBC	Vaagdevi college of en	Assistant Professor	9010636265	2.18916E+11	750	08-07-2022
prathibhapalla@gmail.com	Mrs.	Palla Prathibha	Female	General	Vaagdevi college of en	Assistant Professor	7032058077	CICAgJDAvYrOcQ	750	08-07-2022
swapna.manuparthi@gmail.com	Mrs.	Swapna Manuparthi	Female	ST	Vaagdevi College of E	Assistant Professor	9866963813	T2207081631326569465143	750	08-07-2022
ramasr555@gmail.com	Mrs.	K Rama Devi	Female	OBC	Vaagdevi College of E	Assistant Professor	9618060648	2.18994E+11	750	08-07-2022
bsm.cse@kitsw.ac.in	Mr.	Sridhara Murthy Bejugama	Male	General	Kakatiya Institute of Te	Assistant Professor	9030318599	2.19084E+11	750	09-07-2022
gs.cse@kitsw.ac.in	Mr.	SRIDHAR GUJJETI	Male	General	KAKATIYA INSTITUTE	Assistant Professor	8106344347	2.19012E+11	Rs. 750/-	09-07-2022
shailajaphd21@gmail.com	Mrs.	Varagiri Shailaja	Female	OBC	GRIET	Assistant Professor	9912157164	2.19178E+11	750	10-07-2022
vimalapolem@gmail.com	Mrs.	VEMULAMMA POLEM	Female	SC	VEMULAMMA POLEM	Assistant Professor	7981297165	T2207112207569056076230	750	11-07-2022
rangarajudeepika@gmail.com	Mrs.	R.Dedpika	Female	OBC	Vaagdevi college of Er	Assistant Professor	9700609609	T2207120624271976783716	750	12-07-2022
gowriv1@srmist.edu.in	Dr.	Dr V GOWRI	Female	OBC	Dr V GOWRI	Assistant Professor	09600094032	1.30722E+14	750	13-07-2022
sajinis@srmist.edu.in	Mrs.	S.SAJINI	Female	OBC	SRMIST_RAMAPURAM	Assistant Professor	9094077386	1.30722E+14	750	13-07-2022
nagulasindhujai23@gmail.com	Mrs.	Nagulasindhujai	Female	other	Jayamukhi institute of	Assistant Professor	8106276756	Transaction	750	14-07-2022
sakthipriya583@gmail.com	Mrs.	Mangalapriya	Female	OBC	Mangalapriya	Assistant Professor	+916374432492	62423775910	Yes	14-07-2022
v2ramesh634@gmail.com	Dr.	RAMESH VATAMBETI	Male	SC	VIT-AP University	Professor	7729992929	2.19614E+11	750	15-07-2022
Venkanna350@gmail.com	Mr.	Gugulothu venkanna	Male	ST	Jayamukhi institute of	Assistant Professor	8499095447	T2207151316245418303377	Paid	15-07-2022
gullarudramadevi@gmail.com	Smt.	Mandala.Rudramadevi	Female	OBC	Jayamukhi institution o	Assistant Professor	7731802781	T2207151909196185575966	750	15-07-2022
rekha.kanyaboyina@gmail.com	Mrs.	Kanya Boina. Rekha Devi	Female	OBC	Vaagdevi college of en	Assistant Professor	+919989286591	2.1968E+11	750	15-07-2022
sabithap@srmist.edu.com	Mrs.	P.SABITHA	Female	OBC	SRM INSTITUTE OF S	Assistant Professor	9444025334	1.30722E+14	750	13-07-2022
arkmech9@gmail.com	Mr.	Abdul Razak kaladgi	Male	OBC	Abdul Razak kaladgi	Research Scholar	+918660018783	2.20E+11	750	15-07-2022
aroy.phd@gmail.com	Dr.	Abhishek Roy	Male	General	Adamas University, Ko	Associate Professor	9476134119	2.19711E+11	750	16-07-2022
Khanna.vaagdevi@gmail.com	Dr.	Kaluvakolanu Rajesh Khanna	Male	OBC	vce	Associate Professor	+91 99495 53653	T220716	750	16-07-2022
rajakumar_p@vaagdevi.edu.in	Mr.	Pogaku Raj kumar	Male	OBC	vce	Assistant Professor	+91 98494 40696	2197645	750	16-07-2022
kalyansr555@gmail.com	Dr.	KALYANAPU SRINIVAS	Male	OBC	Kakatiya Institute of Te	Assistant Professor	9885969431	2.19719E+11	750	16-07-2022
itsdianamoses@gmail.com	Dr.	Dr Diana Moses	Female	OBC	Dr Diana Moses	Associate Professor	+917708442222	2.19718E+11	750	16-07-2022
sathya2989@gmail.com	Dr.	Dr. Sathyapriya L	Female	OBC	SRM Institute Of Scien	Assistant Professor	9789844412	N198222041688562	750	17-07-2022
devipria@srmist.edu.in	Dr.	Devipriya A	Female	OBC	SRM Institute of Scien	Assistant Professor	9600940078	N198222041700060	750	17-07-2022
tamilr52@gmail.com	Dr.	Thamizhamuthu.R	Female	SC	SRM Institute of Scien	Assistant Professor	9790875544	N198222041701468	750	17-07-2022
br.cse@kitsw.ac.in	Mr.	B.RAJU	Male	OBC	KAKATIYA INSTITUTE	Assistant Professor	9885508384	IHQ6217614	750	17-07-2022
rupali_sawant@spit.ac.in	Dr.	Rupali Harish Sawant	Female	General	Sardar Patel Institute o	Assistant Professor	9820985903	0446734603	Yes	17-07-2022
jsisodia@spit.ac.in	Mr.	Jignesh Sisodia	Male	SC	Sardar Patel Institute o	Assistant Professor	9987574759	2.19818E+11	750	17-07-2022
rajitha.bonagiri@gmail.com	Mrs.	RAJITHA BONAGIRI	Female	OBC	Vaagdevi College Of E	Assistant Professor	8179763505	IHQ6217614	750	17-07-2022
varsha_hole@spit.ac.in	Ms.	Varsha Pravin Hole	Female	General	Sardar Patel Institute o	Assistant Professor	9967223274	2.1982E+11	750	17-07-2022
nikahat_kazi@spit.ac.in	Prof.	Nikahat Mulla	Female	General	Sardar Patel Institute o	Assistant Professor	9819238567	2.19819E+11	750	17-07-2022
pravinhole@temaengg.ac.in	Mr.	Pravin Basavraj Hole	Male	General	Terna Engineering Coll	Assistant Professor	9892142614	2.1984E+11	750	17-07-2022
swetha_a@vaagdevi.edu.in	Mrs.	Swetha Arra	Female	General	Vaagdevi college of en	Assistant Professor	901000306	T2207180935191771791960	Rs.750	18-07-2022
sheetal_chaudhari@spit.ac.in	Ms.	Sheetal Chaudhari	Female	General	Sardar Patel Institute o	Assistant Professor	8097371766	N198222041837112	750 Rs	17-07-2022
reenaanaaz@gmail.com	Mrs.	Zareena Begum	Female	OBS	Vaagdevi College Of E	Assistant Professor	8919761278	8919761278	750	17-07-2022



**Two Weeks ONLINE FACULTY DEVELOPMENT PROGRAMME on  
Artificial Intelligence and its Applications**

**(18th July –29th July 2022)**

**Organized by**

**Electronics & ICT Academy, NIT Warangal**

**In association with**

**Vaagdevi College of Engineering, Warangal**

**(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)**



**Co-ordinator**

Dr. E. Balakrishna

Dept. of CSE,  
Vaagdevi College Of Engineering, Warangal

Email: balakrishna\_e@vaagdevi.edu.in

Mobile: +91- 8897328332



Tentative lecture schedule of Online FDP on “Artificial Intelligence & Applications” held during July 18-28, 2022s.

	Morning Session 10:00 AM to 12:00 AM	After Noon Session 1:30 PM to 3:30 PM
Day-1 July 18, 2022	Python for AI & ML Dr. Kagita Venkateshwara Rao	Brain Computer Interface using ML Dr. Damoder Reddy, NIT Goa
Day-2 July 19, 2022	Data Visualization using Python Dr. Kagita Venkateshwara Rao	Regression Basics and hands-on Dr. Ilaiah Kavati, NIT Warangal
Day-3 July 20, 2022	Classification: NB, KNN, DTs, Dr. Ilaiah Kavati, NIT Warangal	Classification: ANNs Dr. Ramalingaswamy, NIT Warangal
Day-4 July 21, 2022	Deep Learning: Research Challenges and Applications Dr. Damoder Reddy, NIT Goa	Reinforcement Learning Dr. Bala Prakash Rao Killi
Day-5 July 22, 2022	Virtual and Augmented Reality using ML Dr. Damoder Reddy, NIT Goa	Clustering: K-means, K-medoids Dr. Ilaiah Kavati, NIT Warangal
Day-6 July 23, 2022	Ensemble Methods: Hands-on using Python Dr. Ramalingaswamy, NIT Warangal	Dr Jaider NIT Surathkal
Day-7 July 25, 2022	Deep Learning the Future Engineering: Handcrafted Features to CNN Dr. Badri Narayana, IIT Jammu	Dimensionality Reduction Techniques: Hands-on using Python Dr. Ramalingaswamy, NIT Warangal
Day-8 July 26, 2022	Fuzzy Logic and Applications Dr Sujit Das, NIT Warangal	Fuzzy Logic and Jaya Algorithm Dr. G Venkatesh, NIT Warangal
Day-9 July 27, 2022	Optimization Strategies for Agriculture: Challenges and Issues: Dr Ramesh D, IIT Dhanbad	AI Search Techniques Dr. Kagita Venkateshwara Rao
Day-10 July 28, 2022	Model selection and Performance Measures Dr. Ramalingaswamy, NIT Warangal	Challenges in Autonomous Vehicle Systems and Violence Detection using ML Dr. Ilaia Kavati, NIT Warangal

#### Co-ordinators

Dr. E Balakrishna (Vaagdevi College of Engineering, Warangal) &

Dr. Ilaiah Kavati (NIT Warangal)



**ELECTRONICS & ICT ACADEMY**  
**NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, (T.S.), INDIA**  
and  
**Vaagdevi College of Engineering, Warangal**



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has participated in a 40-hour Online Faculty Development Programme on "**Artificial Intelligence and its Applications**" Sponsored by Ministry of Electronics and Information Technology (MeitY) GoI, organised by E&ICT Academy, NIT Warangal and Vaagdevi College of Engineering, Warangal District during 18<sup>th</sup> - 29<sup>th</sup> July, 2022.

She / He has successfully completed all the requirements for the completion of the programme.

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Coordinator  
VCE, Warangal

**Dr. Prof. K. Prakash**  
Principal  
VCE, Warangal

**Dr. Ilaiyah Kavati**  
Coordinator  
NIT Warangal

**Prof. R.B.V. Subramaanyam**  
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E&ICT Academy, NIT Warangal

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# Artificial Neural Networks

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Assistant Professor,  
Department of CSE, NIT Warangal

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Assistant Professor,  
Department of CSE, NIT Warangal

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## Neural Networks

The diagram illustrates a single neuron and its connections. It shows a central cell body (soma) containing a nucleus, with branching structures called dendrites extending from it. A long axon extends from the cell body, ending in axonal arborization. Synapses are shown where the axon of one neuron meets the dendrite of another, and an axon from another cell is also depicted.

Participants (34)

SWATHIKA P Host

ramalingaswamy cheruku

A.Nagajothi

Aakash Sharma

Abdul razak

Addagudi Ashwini

Debraj Das

Dr Sathyapriya L

Dr. Abhishek Roy

Dr.D.PRABAKAR

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- Dr.V.GOWRI
- E&ICT FDP
- Jaya Lakshmi
- Jignesh Sisodia
- K Rama Devi 297061
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- nagulasindhuja
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# Linear and Logistic Regression

Dr Ilaiah Kavati  
NIT Warangal

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- Dr.E.Balakrishna Host me
- Ilaiah Kavati
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- Aakash Sharma
- Addagudi Ashwini
- Debraj Das
- Dr Ramesh V
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## Types of Machine Learning

- Supervised
- Reinforcement
- Un-Supervised



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Dr.E.Balakrishna (Host, me) | Ilaiah Kavati | A.Nagajothi | Aakash Sharma | Addagudi Ashwini | Debraj Das | Dr Ramesh V | Dr. Abhishek Roy | Dr.V.GOWRI | gullarudramadevi | Jaya Lakshmi | Jignesh Sisodia

### Regression - Linear Regression

1 Classification | 2 Regression

Task: Estimating price of a house

Price of a house

Rs. 8,00,000 | Rs. 6,00,000 | Rs. 2,00,000

Size of a house

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Participants (35)

Dr.E.Balakrishna (Host, me) | Ilaiah Kavati | A.Nagajothi | Aakash Sharma | Addagudi Ashwini | Debraj Das | Dr Ramesh V | Dr. Abhishek Roy | Dr.D.PRABAKAR | Dr.V.GOWRI | gullarudramadevi | Jaya Lakshmi

### Linear Regression

Linear regression is perhaps one of the most well known and well understood algorithms in statistics and machine learning!

Linear regression is a linear model,  
e.g. a model that assumes a linear relationship between the input variables (x) and a single output variable (y)

$$y = mx + c$$

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Participants (39)

Search

- Dr.E.Balakrishna (Host, me)
- Ilalah Kavati
- A.Nagajyothi
- Aakash Sharma
- Addagudi Ashwini
- Debraj Das
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- Dr Ramesh V
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## Linear Regression

Now, let's predict the values of y using  $x = \{1, 2, 3, 4, 5\}$  and plot the points!



$$y = (0.2 * x) + 2.2$$

$y_p = (0.2 * 1) + 2.2 = 2.4$
$y_p = (0.2 * 2) + 2.2 = 2.6$
$y_p = (0.2 * 3) + 2.2 = 2.8$
$y_p = (0.2 * 4) + 2.2 = 3.0$
$y_p = (0.2 * 5) + 2.2 = 3.2$

$y_p =$  Predicted values of y

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Dr. Abhishek Roy | **Ilalah Kavati** | Salim Jiwani | A.Nagajyothi | Akash Sharma | Addagudi Ashwini

01:15:09

Participants (41)

Search

- Dr.E.Balakrishna (Host, me)
- Ilalah Kavati
- A.Nagajyothi
- Aakash Sharma
- Addagudi Ashwini
- Debraj Das
- Dr Diana Moses
- Dr Ramesh V
- Dr Sathyapriya L
- Dr. Abhishek Roy
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## Logistic Regression

Now, let's look into Logistic Regression



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Participants: Dr. Abhishek Roy, Salim Jiwani, A.Nagajyothi, Akash Sharma, Addagudi Ashwini

Viewing Ilaiah Kavati's screen

### Logistic Regression

Linear Regression, dependent and independent variables

To brush up,  $y = mx + c$

The dependent variable is the target class variable we are going to predict

The independent variables ( $x_1 \dots x_n$ ) are the features or attributes we are going to use to predict the target class

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Participants (40): Dr.E.Balakrishna, Ilaiah Kavati, A.Nagajyothi, Akash Sharma, Addagudi Ashwini, Debraj Das, Dr Diana Moses, Dr Ramesh V, Dr Sathyapriya L, Dr. Abhishek Roy, Dr. KALYANAPU SRINIVAS, Dr.D.PRABAKAR

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Participants: Shilpa gunwant, Ilaiahkavati, Dr. Abhishek Roy, Salim Jiwani, A.Nagajyothi

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### snippet generator

Make by Pawel Grych | Source code on GitHub | Share on Twitter

Description	Tab trigger	VScode	Sublime Text	Atom
import numpy as np import pandas as pd import matplotlib.pyplot as plt matplotlib inline		""" "prefix": "" "body": [ "import numpy as np", "import pandas as pd", "import matplotlib.pyplot as plt", "matplotlib inline" ], "description": "" }		

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Participants (39): Dr.E.Balakrishna, Ilaiahkavati, A.Nagajyothi, Addagudi Ashwini, Debraj Das, Dr Diana Moses, Dr Ramesh V, Dr Sathyapriya L, Dr. Abhishek Roy, Dr. KALYANAPU SRINIVAS, Dr.D.PRABAKAR, Dr.Devipriya A

Meeting Info: Meeting Info | Hide Menu Bar

01:34:02

Participants: Shilpa gunwant, Ilaahkavati, Dr. Abhishhek Roy, Salim Jiwani, A.Nagayothi

Participants (38): Search, Rupali sawant, S.SAJINI, Salim Jiwani, Sharanabasappa Raikoti, Sheetal Chaudhari, Shilpa gunwant, Sriidhara Murthy Bejugama, Sriram, surya pandey, SWATHIKA P, Thamizhamuthu R, VIJAY KUMAR A, Mute all, Unmute all

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snipper.io/s/-N7P

```

noname.js
1 import numpy as np
2 import pandas as pd
3 import matplotlib.pyplot as plt
4 %matplotlib inline
5

```

Chat

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10:54 PM 7/19/2022

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02:02:46

Participants: Shilpa gunwant, Ilaahkavati, Dr. Abhishhek Roy, A.Nagayothi, Addagudi Adhwan

Participants (37): Search, Pravin Hole, Rupali sawant, S.SAJINI, Salim Amirali Jiwani, Sharanabasappa Raikoti, Sheetal Chaudhari, Shilpa gunwant, Sriram, surya pandey, SWATHIKA P, Thamizhamuthu R, VIJAY KUMAR A, Mute all, Unmute all

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Jupyter LinearRegressionCase

```

In [17]: # visual for the testing data
plt.scatter(x_test, y_test, color='blue')
plt.plot(x_train, y_train, color='red')
plt.xlabel("Years experience")
plt.ylabel("Salary")

In [18]: # error
from sklearn import metrics
metrics.mean_squared_error(y_test, y_pred)
Out[18]: 21826877.129511296

In [19]: np.sqrt(metrics.mean_squared_error(y_test, y_pred))

```

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11:23 PM 7/19/2022

Meeting Info: Meeting ID: 852 852 852 | 02:04:16

Participants: Shilpa gunwant, ilaiahkavati, Dr. Abhishek Roy, A.Nagajyothi, Addagudi Ashwini

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```

jupyter MLRITSU Last Checked: 25/09/2021 (auto saved)
In [10]: evaluate the model by creating a confusion matrix
from sklearn.metrics import confusion_matrix
confusion_matrix(y_test,y_pred)

Out[10]: array([[40,  0],
               [ 0, 24]], dtype=int64)

In [11]: from sklearn.metrics import accuracy_score
accuracy_score(y_test,y_pred)

Out[11]: 0.89

In [12]: KNN
KNeighborsClassifier

In [13]: splitting the data set
from sklearn.neighbors import KNeighborsClassifier
classifier=KNeighborsClassifier(n_neighbors=1, metric='euclidean', p=2)
classifier.fit(x_train,y_train)

Out[13]: KNeighborsClassifier(algorithm='auto', leaf_size=30, metric='euclidean',
                             metric_params=None, n_neighbors=1,
                             n_neighbors_callable=None, p=2,
                             weights='uniform')

In [14]: predict the test set result
y_pred=classifier.predict(x_test)

In [15]: evaluate the model by creating a confusion matrix
from sklearn.metrics import confusion_matrix
confusion_matrix(y_test,y_pred)

```

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Participants (36): Dr.E.Balakrishna, ilaiahkavati, A.Nagajyothi, Addagudi Ashwini, Debraj Das, Dr. Diana Moses, Dr. Sathyapriya L., Dr. Abhishek Roy, Dr. KALY., Dr.D.PRABAKAR, Dr.D.PRABAKAR, Dr.Devipriya A, Dr.V.GOWRI

11:25 PM 7/19/2022

Meeting Info: Meeting ID: 852 852 852 | 02:09:36

Participants: Shilpa gunwant, ilaiahkavati, Dr. Abhishek Roy, A.Nagajyothi, Addagudi Ashwini

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```

jupyter MLRITSU Last Checked: 25/09/2021 (auto saved)
In [11]: Logistic regression for training dataset
from sklearn.linear_model import LogisticRegression
logit=LogisticRegression(solver='lbfgs')
logit.fit(x_train, y_train)

C:\Users\prasad\Anaconda3\site-packages\sklearn\linear_model\logistic.py:412: FutureWarning: Default solver will be changed to
'lbfgs' in 0.22. Specify a solver to silence this warning.
FutureWarning:

Out[11]: LogisticRegression(C=1.0, class_weight=None, dual=False, fit_intercept=True,
                             intercept_scaling=1, max_iter=100,
                             multi_class='warn', n_jobs=None, penalty='l2',
                             random_state=0, solver='warn', tol=0.0001, verbose=0,
                             warm_start=False)

In [12]: predict the test set result
y_pred=logit.predict(x_test)

In [13]: evaluate the model by creating a confusion matrix
from sklearn.metrics import confusion_matrix
confusion_matrix(y_test,y_pred)

Out[13]: array([[40,  0],
               [ 0, 24]], dtype=int64)

In [14]: from sklearn.metrics import accuracy_score
accuracy_score(y_test,y_pred)

Out[14]: 0.89

```

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Aakash Sharma

Addagudi Ashwini

Dr Ramesh V

Dr Sathyapriya L

Dr.V.GOWRI

gullarudramadevi

Jaya Lakshmi

Jignesh Sisodia

K Rama Devi 297061

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Supervised Learning (11:00) - Adobe Acrobat Reader (6 - 107.100)

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Supervised Learning

Dr Ilalah Kavati  
Asst Prof, Dept. of CSE  
NIT Warangal

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1:37 AM  
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K-NN Classifier Algorithm

- K-NN algorithm assumes the similarity between the new case/data and available cases and put the new case into the category that is most similar to the available categories.
- K-NN algorithm stores all the available data and classifies a new data point based on the similarity. This means when new data appears then it can be easily classified into a well suite category by using K- NN algorithm.
- It is also called a **lazy learner algorithm** because it does not learn from the training set immediately instead it stores the dataset and at the time of classification, it performs an action on the dataset.
- KNN algorithm at the training phase just stores the dataset and when it gets new data, then it classifies that data into a category that is much similar to the new data.

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1:38 AM  
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Meeting Info: Salim Jiwani, Shilpa gurnam, A.Nagajothi, Aakash Sharma, Addagudi Ashwini

Participants (36): Dr.E.Balakrishna (Host), Ilaiah Kavati, A.Nagajothi

Chat:

- from Dr.E.Balakrishna to everyone: 10:52 PM sir it may be helpful to run the python code
- from Ilaiah Kavati to everyone: 10:54 PM [snipper.io/s/-N7P9lybNvenwTFHI-0c](https://snipper.io/s/-N7P9lybNvenwTFHI-0c)
- from Jaya Lakshmi to everyone: 10:57 PM no sir
- from Ilaiah Kavati to everyone: 2:22 AM [snipper.io/s/-N7P9lybNvenwTFHI-0c](https://snipper.io/s/-N7P9lybNvenwTFHI-0c)

Code Editor (Untitled1.ipynb):

```

predic the test set result
y_pred=logit.predict(x_test)

evaluate the model by creating a confusion matrix
from sklearn.metrics import confusion_matrix
cm=confusion_matrix(y_test,y_pred)
  
```

Taskbar: 20-07-2022, 13:58

Meeting Info: Dr. Reddy, Dr. Abhishek Roy, A.Nagajothi, Aakash Sharma, Addagudi Ashwini, admin

Participants (31): Dr.E.Balakrishna (Host), Dr. Reddy, A.Nagajothi, Aakash Sharma, Addagudi Ashwini, admin, Dr Diana Moses, Dr Sathyapriya L, Dr. Abhishek Roy, Dr.D.PRABAKAR, Dr.Devipriya A, Dr.V.GOWRI

Slide Content:

- Human Learning: is deeply layered.
- Zone of proximal development (Learner can do with guidance)
- Learner can do unaided
- Learner cannot do
- Deep expertise

Taskbar: 9:49 PM, 7/20/2022

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## No dataset — no deep learning

Deep learning requires a lot of data (otherwise simple models could be better). But sometimes you have no dataset...

Nonetheless several ways available:

- Transfer learning
- Data augmentation
- Mechanical Turk
- Unsupervised pre-training
- moving towards one-shot and zero-shot learning
- ...

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- Aakash Sharma
- Addagudi Ashwini
- admin
- Dr Diana Moses
- Dr Sathyapriya L
- Dr. Abhishek Roy
- Dr.D.PRABAKAR
- Dr.Devipriya A
- Dr.V.GOWRI

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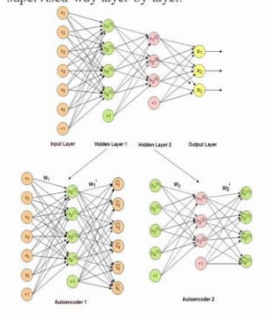
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Salim Amralli Jiwani Shilpa gumwant **Dr. Reddy** Dr. Abhishek Roy A.Nagajyothi Aakash Sharma Layout

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## Deep Learning for Classification

► We use Deep Neural networks (DNNs) with stack of auto-encoders and Train them in a supervised way layer by layer.



1. DNN consists of a stack of autoencoders, where the number of features are reduced passing each autoencoder.
2. The output of these autoencoders is provided as an input to the other system which identifies into respective classes.

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### Algorithm to Design Deep Neural Network with Novel Aggregation

- A new multiplicative aggregation function termed as denoted by  $A$  has been proposed to remove redundancy.  $A$  is a multiplicative aggregation function incorporating correlation between the features.

$$A_j = x_j U_j^2 \left( 1 + \sum_{i \neq j} -2\rho_{ij}^2 \log(1 + V_{ij}^2 \sqrt{1 + x_i}) \right)$$

- There are two types of weights for input to hidden layer connections denoted by  $U$  and  $V$ .  $U_j$  represents the weight from  $j$ th input neuron to  $j$ th hidden neuron.
- $V_{ij}$  represents the weight from  $i$ th input neuron to  $j$ th hidden neuron where  $i \neq j$
- $W_{jr}$  represents the weight from  $j$ th hidden neuron to  $r$ th hidden neuron where  $j \neq r$
- $\rho_{ij}$  denotes correlation between features  $x_i$  and  $x_j$

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### Example: Image Colorization

		
		
<b>Input</b>	<b>Our Method</b>	<b>Ground-truth</b>

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### Example: Photo-realistic Style Transfer

Original photo Reference photo Result

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Participants (35)

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Dr.E.Balakrishna Host me Dr. Reddy A.Nagajyothi Aakash Sharma Abdul razak Addagudi Ashwini admin Dr Diana Moses Dr Ramesh V Dr Sathyapriya L Dr. Abhishek Roy Dr.Devipriya A

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### Example: Multi-Domain Image-to-Image Translation

Input	Blond hair	Gender	Aged	Pale skin	Input	Angry	Happy	Fearful

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<https://www.researchgate.net/publication/358121414>

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**WHY TO DESIGN EXPERIMENT?**

- TO OBTAIN MAXIMUM INFORMATION FROM MINIMUM NUMBER OF EXPERIMENTS.
- TO SCREEN FACTORS WHEN LARGE NUMBER OF FACTORS ARE PRESENT
- TO GET A CURVE THAT EXACTLY FITS THE ACTUAL MODEL. EXPERIMENTS HAS TO BE DESIGNED IN SUCH A WAY THAT OBTAINED DATA EXACTLY SIMULATES ORIGINAL MODEL.

**HOW TO CONDUCT EXPERIMENTS?**

DIFFERENT SOFTWARES ARE AVAILABE

- ◆ Design expert
- ◆ Statistica
- ◆ MODDE
- ◆ DOE++
- ◆ StatSoft
- ◆ Experstat

Participants (36)

- Dr.E.Balakrishna (Host, me)
- venkatesh gudipadu
- kurna vanaja
- Aakash Sharma
- Abdul razak
- admin
- Debraj Das
- Dr Diana Moses
- Dr Ramesh V
- Dr Sathyapriya L
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Case study

- **Abrasive Flow Machining**

Participants (36)

- Dr.E.Balakrishna (Host, me)
- venkatesh gudipadu
- kurna vanaja
- Aakash Sharma
- Abdul razak
- admin
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### Jaya

SF-MRR (weights)	A	B	C	D	FU	SF*	MRR*
0.5-0.5	20	22	300	8	0.174	0.24762	16.4561
0.6-0.4	20	12	350	8	0.339	0.34762	12.4561
0.7-0.3	20	2	350	8	0.504	0.34762	12.4561
0.8-0.2	20	2	350	8	0.67	0.34762	12.4561
0.9-0.1	20	2	350	8	0.835	0.34762	12.4561
0.2-0.8	20	7.409	204.3	8	0.893	0.43292	14.70645

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### Experimental setup

- A laboratory developed MAF setup has been used to conduct the experiments.
- Al alloy workpiece is used with dimensions of 10x10x0.8 cm
- Initially workpiece is surface grinded with  $R_a$  values of 1±0.1µm
- Abrasives Used : SiC -300 mesh
- Iron powder : 600 mesh
- Run time : 10 min

VID\_20190401\_113714.mp4

Schematic of ID MAF set up

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## Jaya

- Prof.Rao has developed JAYA algorithm in 2011 for solving both Unconstrained and constrained problems.
- Jaya technique is applied with the help of MATLAB 2014a. After the application of GA to the **objective function**, the optimum parameters and their levels are noted.

```

    graph TD
      Start([Start]) --> Define[Define population size, number of variables, and termination principle.]
      Define --> Eval[Best solution (J_min) and worst solution (J_max) defined, and evaluated.]
      Eval --> Calc[ $X_{j,k+1} = X_{j,k} + r_{1,k}(J_{max} - X_{j,k}) - r_{2,k}(J_{min} - X_{j,k})$ ]
      Calc --> Compare{ $J_{j,k+1} < J_{j,k}$ }
      Compare -- Yes --> Replace[Replace earlier solution]
      Compare -- No --> Keep[Keep earlier solution]
      Replace --> Eval
      Keep --> Eval
      Eval --> Terminate{Is the termination principle satisfied?}
      Terminate -- No --> Calc
      Terminate -- Yes --> Print([Print the optimum solution])
  
```

Flow chart of Jaya Algorithm [6]

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## Genetic Algorithm

- GA applied with the help of an optimization toolbox using MATLAB 2014a. After the application of GA to the **objective function**
- In this work the same optimum input parameters are observed for both Jaya and GA technique.

- confirmation experiments are conducted at optimum parameters using Jaya and GA and observed the % of the error

C1	C2	C3	Actual	%ΔRa		%Error	
				Predicted		Compared	
				GA	Jaya	GA	Jaya
30	500	50	78.5	78.72	77.085	0.3%	2.12

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Dr Sujit Das

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# Soft Computing and its Applications



**Dr. Sujit Das**  
**Department of Computer Science and Engineering**  
**NIT Warangal**

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- Dr Diana Moses
- Dr Ramesh V
- Dr Sathyapriya L
- ilaliahkavati
- Jaya Lakshmi
- Jignesh Sisodia
- Nikahat Mulla
- P.Sabitha
- Rupali sawant

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# Soft Computing and its Applications



**Dr. Sujit Das**  
**Department of Computer Science and Engineering**  
**NIT Warangal**

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- P.Sabitha
- Rupali sawant

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Meeting Info: Meeting ID: 721 2022 07:22

Participants (24): ilalahkavati, Jaya Lakshmi, Jignesh Sisodia, Nikahat Mulla, P.Sabitha, Rupali sawant, Salim Amirali Jiwani, Salim Jiwani, Sharanabasappa Raikoti, SRIDHAR GUJJETI, Sriidhara Murthy Bejugama, Sriram S R

## Presentation Outline

- Basics of Soft Computing
- Introduction to fuzzy set
- Applications of Fuzzy Set

9:58 PM 7/21/2022

Meeting Info: Meeting ID: 721 2022 01:15:25

Participants: Akash Sharma, Debraj Das, Dr Diana Moses, Dr Ramesh V, Dr Sathyapriya L, Dr Sujit Das (Host), Dr V GOWRI, DLD.PRABAKAR

## Intersection of Fuzzy Sets

$$A \cup B = \{(a, 0.5), (b, 0.8), (c, 0.5)\}$$

$$A = \{(a, 0.1), (b, 0.5), (c, 0.5)\}$$

$$B = \{(a, 0.5), (b, 0.8)\}$$

$$A \cap B = \{(a, 0.1), (b, 0.5)\}$$

The **intersection** of  $\bar{A}$  and  $\bar{B}$  is a fuzzy set in  $X$ , denoted by  $\bar{A} \cap \bar{B}$ , whose membership function is  $\mu_{\bar{A} \cap \bar{B}}(x) = \mu_{\bar{A}}(x) \wedge \mu_{\bar{B}}(x) = \min\{\mu_{\bar{A}}(x), \mu_{\bar{B}}(x)\}$  for each  $x \in X$ .

So  $\bar{A} \cap \bar{B} = \{x, \mu_{\bar{A} \cap \bar{B}}(x)\}; \mu_{\bar{A} \cap \bar{B}}(x) = \min\{\mu_{\bar{A}}(x), \mu_{\bar{B}}(x)\}, \forall x \in X$

$\int_{x \in X} \min(\mu_{\bar{A}}(x), \mu_{\bar{B}}(x)) / x$

99

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### Fuzzy Composition: Example (max-min)

$P: X = \{x_1, x_2\}, Y = \{y_1, y_2\}, \text{ and } Z = \{z_1, z_2, z_3\}$

Consider the following fuzzy relations:

$$\tilde{R} = \begin{matrix} & y_1 & y_2 \\ x_1 & 0.7 & 0.5 \\ x_2 & 0.8 & 0.4 \end{matrix} \quad \text{and} \quad \tilde{S} = \begin{matrix} & z_1 & z_2 & z_3 \\ y_1 & 0.9 & 0.6 & 0.5 \\ y_2 & 0.1 & 0.7 & 0.5 \end{matrix}$$

Using max-min composition,

$$\mu_{\tilde{T}}(x_i, z_j) = \bigvee_{y \in Y} (\mu_{\tilde{R}}(x_i, y) \wedge \mu_{\tilde{S}}(y, z_j))$$

$$= \max[\min(0.7, 0.9), \min(0.5, 0.1)]$$

$$= 0.7$$

$$\tilde{T} = \begin{matrix} & z_1 & z_2 & z_3 \\ x_1 & 0.7 & 0.6 & 0.5 \\ x_2 & 0.8 & 0.6 & 0.4 \end{matrix}$$

77

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Aakash Sharma Debraj Das Dr Diana Moses Dr Ramesh V Dr Sathyapriya L Dr Sujit Das (Host)

Participants (25)

Search

Dr.E.Balakrishna Me  
 Dr.Sujit Das Host  
 Aakash Sharma  
 Debraj Das  
 Dr Diana Moses  
 Dr Ramesh V  
 Dr Sathyapriya L  
 Dr V GOWRI  
 Dr.Devipriya A  
 Dr.E.Balakrishna  
 Jaya Lakshmi  
 Jignesh Sisodia  
 Nikhat Mulla  
 Activate Windows  
 Participants Chat

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Thank you

Contact No 8536009758  
 Email: sujit.das@nitw.ac.in

117

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ramalingaswamy cheruku Aakash Sharma Dr Diana Moses Dr Ramesh V Dr. KALYANAPU SRINIVAS Dr.D.PRABAKAR Layout

Viewing ramalingaswamy cheruku's sc... - 55% +



Decision Trees:  
Basic Concepts

Dr. Ramalingaswamy Cheruku  
Assistant Professor, Department of CSE  
National Institute of Technology Warangal,  
Telangana

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Participants (21)

- Dr.E.Balakrishna (Host, me)
- ramalingaswamy cheruku
- Aakash Sharma
- Dr Diana Moses
- Dr Ramesh V
- Dr. KALYANAPU SRINIVAS
- Dr.D.PRABAKAR
- Dr.E.Balakrishna
- Gouthami
- Gugulothu Venkanna
- Jignesh Sisodia
- M. Rama

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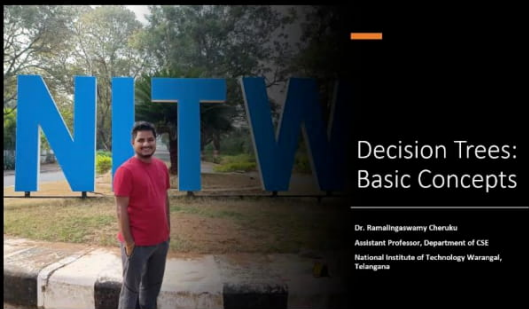
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ramalingaswamy cheruku Aakash Sharma Dr Diana Moses Dr Ramesh V Dr. KALYANAPU SRINIVAS Dr.D.PRABAKAR Layout

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Decision Trees:  
Basic Concepts

Dr. Ramalingaswamy Cheruku  
Assistant Professor, Department of CSE  
National Institute of Technology Warangal,  
Telangana

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Participants (21)

- Dr.E.Balakrishna (Host, me)
- ramalingaswamy cheruku (Request unmute)
- Aakash Sharma
- Dr Diana Moses
- Dr Ramesh V
- Dr. KALYANAPU SRINIVAS
- Dr.D.PRABAKAR
- Dr.E.Balakrishna
- Gouthami
- Gugulothu Venkanna
- Jignesh Sisodia
- M. Rama

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Participants (22)

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Dr.E.Balakrishna (Host, me)

ramalingaswamy cheruku

Aakash Sharma

Dr Diana Moses

Dr Ramesh V

Dr. KALYANAPU SRINIVAS

Dr.D.PRABAKAR

Dr.E.Balakrishna

Gouthami

Gugulothu Venkanna

Jignesh Sisodia

M. Rama

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Participants Chat

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Microsoft Whiteboard

New Whiteboard

Untitled Edited: Tue 8:45 PM

Untitled Edited: Tue 8:44 PM

Untitled Edited: Tue 8:38 PM

Untitled Edited: Tue 7:51 PM

Untitled Edited: Tue 2:11 PM

Untitled Edited: 06/27/2022 1:42 PM

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24°C Rain to stop

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Dr.E.Balakrishna (Host, me)

ramalingaswamy cheruku

Aakash Sharma

Abdul razak

budidha nagaraju

Debraj Das

Dr Diana Moses

Dr.D.PRABAKAR

Dr.E.Balakrishna

Dr.V.GOWRI

E&ICT FDP

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Participants Chat

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Continuous Attributes: Computing Gini Index...

- For efficient computation: for each attribute,
  - Sort the attribute on values
  - Linearly scan these values, each time updating the count matrix and computing gini index
  - Choose the split position that has the least gini index

Cheat	No	No	No	Yes	Yes	Yes	No	No	No	No	
	50	70	75	85	90	95	100	120	195	220	
Sorted Values	45	65	72	80	87	92	97	110	122	172	230
Split Positions	<<	>	>	>	>	>	>	>	>	>	>
Yes	0	3	0	3	0	3	1	2	1	3	0
No	0	7	1	6	2	5	3	4	3	4	4
Gini	0.420	0.400	0.375	0.343	0.417	0.400	0.200	0.343	0.375	0.400	0.420

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01:03:59 2:27 AM 7/22/2022

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Dr. Reddy Rajkumar P Aakash Sharma Debraj Das Dr Ramesh V Dr.D.PRABAKAR

Layout

Participants (18)

Search

Dr.E.Balakrishna Host, me

Dr. Reddy

Ask to Control

Aakash Sharma

Debraj Das

Dr Ramesh V

Dr.D.PRABAKAR

Jaya Lakshmi

Jignesh Sisodia

nikahatmulla

P.Sabitha

Pravin Hole

RAJITHA BONAGIRI

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Viewing Dr. Reddy's screen - 55% +

Machine Learning and Soft Computing for Virtual and Augmented Reality

DAMODAR REDDY EDLA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NA [Stop sharing](#) GOA

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Dr. Reddy Rajkumar P Aakash Sharma Debraj Das Dr Diana Moses Dr Ramesh V

Layout

Participants (19)

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Dr.E.Balakrishna Host, me

Dr. Reddy

Aakash Sharma

Debraj Das

Dr Diana Moses

Dr Ramesh V

Dr.D.PRABAKAR

Jaya Lakshmi

Jignesh Sisodia

nikahatmulla

P.Sabitha

Pravin Hole

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Viewing Dr. Reddy's screen - 55% +

SINCE WE CANNOT CHANGE REALITY, LET US CHANGE THE EYES WHICH SEE REALITY.

Nikos Kazantzakis

PICTUREQUOTES.COM

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Dr. Reddy Debraj Das Dr. Devpriya A Dr. Diana Moses Dr. Ramesh V Dr.D.PRABAKAR

01:12:17

Viewing Dr. Reddy's screen - 55% +

### Tracking by Keypoint Detection

- This is what most trackers do...
- Targets are detected every frame
- Popular because tracking and detection are solved simultaneously

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Aakash Sharma admin Dr. Diana Moses Dr. Ramesh V j De.V.GOWRI

04:07:54

Viewing j's screen - 55% +

### Roadmap for Building Machine Learning Systems

- Feature Extraction & Scaling
- Feature Selection
- Dimensionality Reduction
- Sampling
- Model Selection
- Cross-Validation
- Performance Metrics
- Hyperparameter Optimization

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Aakash Sharma admin Dr Diana Moses Dr Ramesh V j Dr. Abhishek Roy

Participants (17)

Search

- Dr.E.Balakrishna Host, me
- j
- Aakash Sharma
- admin
- Dr Diana Moses
- Dr Ramesh V
- Dr. Abhishek Roy
- Dr.V.GOWRI
- gulla rudramadevi
- Nagajyothi
- nikahatmulla
- P.Sabitha

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Participants Chat

Viewing j's screen - 55% +

Why Prepare Data?

- Data need to be formatted for a given software tool
- Data need to be made adequate for a given method
- Data in the real world is dirty
  - incomplete:** lacking attribute values, lacking certain attributes of interest, or containing only aggregate data
    - e.g., occupation=""
  - noisy:** containing errors or outliers
    - e.g., Salary="10", Age="222"
  - inconsistent:** containing discrepancies in codes or names
    - e.g., Age="42" Birthday="03/07/1997"
    - e.g., Was rating "1,2,3", now rating "A, B, C"
    - e.g., discrepancy between duplicate records

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j Aakash Sharma admin Debraj Das Dr D.Prabakar Dr Diana Moses

Participants (20)

Search

- Ueojay Uas
- Dr D.Prabakar
- Dr Diana Moses
- Dr Ramesh V
- Dr. Abhishek Roy
- gulla rudramadevi
- Nagajyothi
- nikahatmulla
- P.Sabitha
- Pravin Hole
- RAJITHA BONAGIRI
- Shilpa ourwant

Mute all Unmute all Activate Windows  
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Participants Chat

Viewing j's screen - 55% +

Symmetric vs. Skewed Data

- Median, mean and mode of symmetric, positively and negatively skewed data

Symmetric

+vely skewed

-vely skewed

Muted. This participant joined the meeting from a mobile device.

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# VAAGDEVI COLLEGE OF ENGINEERING Autonomous

Bollikunta, Khilla Warangal (Mandal), Warangal Urban-506 005 (T.S), www.vaagdevi.edu.in

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Proposal for Workshop

On

### “Introduction to MATLAB and MS-Office Software”

**Purpose:** The purpose of this workshop is to understand the programming in MATLAB to acquire expected results and to learn the concepts of MS-Office

Schedule: 14<sup>th</sup> to 16<sup>th</sup> December, 2022

Expected participants: 60 students

Coordinators: Dr.M.Ranjeeth, Assistant Professor

Dr.Hemanth Kumar Gupta, Assistant Professor

Speakers: Dr.M.Ranjeeth, Dr.Hemanth Kumar Gupta, Mr.Devadas

Requirements: A223 Lab

Sources of income: Registration Fee

Estimated Expenditure: 6500/-

S.NO	Item	Quantity	Expenditure
1.	Stationary (Pen, Files etc)	60	Rs.2000/-
2	Banner	1	Rs.1000/-
3	Snacks	60	Rs.2000/-
4	Lunch for resource persons	2	Rs.1500/-
Total Expenditure: Rs.6500/-			

Dr. M. Ranjeeth  
Coordinators





# VAAGDEVI COLLEGE OF ENGINEERING

Autonomous

Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S)  
Department of Electronics and Communication Engineering



To  
The principal  
Vaagdevi College of Engineering,  
Warangal.

D. 03-12-2022,  
Warangal.

**Sub: Requesting to give the permission to conduct workshop from 14-12-22 to 16-12-22.**

Respected sir,

We, Dr. M. Ranjeeth and Dr. Hemanth Kumar Gupta, are Assistant professor in the Department of E.C.E, VCE-W. We are planning to conduct a three days workshop for final year B.Tech students from 14-12-2022 to 16-12-2022. The workshop entitled "An Introduction to MATLAB and MS-Office Software". This workshop gives the knowledge about how to prepare an efficient B.Tech thesis and effective presentation. Along with this, series of lectures will be provided related to MATLAB software and Research paper writing. We hope this workshop will enhance the knowledge of the students. Hence, we request you to give the permission to conduct three days workshop.

Thanking you sir,

Yours Sincerely,

Dr. M. Ranjeeth,  
Dr. Hemanth Kumar Gupta,  
Assistant Professor,  
Department of ECE,  
VCE-W,  
Ph.7799665516.

*Forwarded  
to principal*

*Sir, please give permission*

*[Signature]*  
3/12/22

*Permitted*  
*[Signature]*  
08/12/22



**A Three Day National Level Workshop**  
On  
**“Introduction to MATLAB and MS-Office  
Software”**

*Organized by Department of ECE, on 14<sup>th</sup> to 16<sup>th</sup>  
December, 2022*

1. Name: .....
2. Qualification: .....
3. Institution: .....
4. Address for Correspondence.....
5. Phone/E-mail.....
6. Accommodation Required: Yes/No

**Declaration**

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course.

Place:

Date:

Signature of the Applicant

**Chief Patrons:**

Sri.Ch. Devender Reddy  
Secretary & Correspondent

Sri.C.Satyapal Reddy, B.E  
Joint Secretary

Dr.Ch. Vahini Devi Reddy  
Director, Vaagdevi Colleges

Smt.Ch.Vani Devi Reddy  
Director, VCE (MCA)

**Patrons:**

Prof. K. K. Prakash  
Principal, Vaagdevi College of Engineering

Prof P. Prasad Rao  
Principal, Vaagdevi Engineering College

**Co-Patron:**

Prof. K. Thirupathi Rao  
Vice-Principal, VCE-Warangal

**Convener:**

Dr. M. Shashidhar, Associate Professor  
HOD, ECE Department  
Dean, Administration

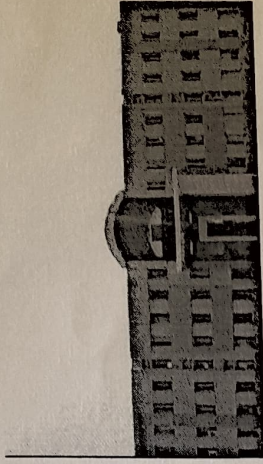
**Coordinators:**

Dr.M.Ranjeeth, Assistant Professor  
Dr.Hemantkumar Gupta, Assistant Professor

**Organizing Committee Members:**

Mrs. B. Sreedevi      Mrs. K. Swapna  
Mr. M.A.H. Shamshi      Mrs. U. Saritha

**A Three Day National Level Workshop**  
On  
**“Introduction to MATLAB and MS-Office  
Software”**  
(14<sup>th</sup> to 16<sup>th</sup> December, 2022)

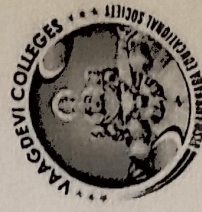


**Faculty Coordinators**

Dr.M.Ranjeeth, Assistant Professor  
Dr.Hemantkumar Gupta, Assistant Professor

**Organized by**

**DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING**



**VAAAGDEVI COLLEGE OF ENGINEERING**

Autonomous

Accredited by NBA

NAAC A Accredited

Bollikunta, Warangal-506005, Telangana, India.



## ABOUT THE INSTITUTE

Vaagdevi College of Engineering is established by the Viswambhara Educational Society in Warangal, in 1998, aims at catering to the higher educational needs of the people of the Telangana region in particular and the people from other states.

Initially, Vaagdevi College of Engineering started with four (4) Undergraduate Programmes (CSE, ECE, EIE & EEE). Now there are Seven Undergraduate programmes (ECE, CSE, EEE, MECH, CIVIL, CSE (AI & ML), CSE (Data Science) and ten Postgraduate programmes excluding MBA & MCA. We have M. Tech with specializations in (i) Structural Engineering (ii) Power Electronics (iii) Power System Control & Automation (iv) Electrical Engineering (v) Thermal Engineering (vi) VLSI System Design (vii) Software Engineering (viii) Computer Science & Engineering (ix) Cyber Security and (x) Artificial Intelligence.

The colleges are located in a vast spiraling area of 70 acres near Mamnoon Air Port at a distance of 3km from the Warangal Railway Station. The college is situated in a rural setting of lush green fertile fields that would bring freshness and tranquility to the minds of students to acquire knowledge in many fields and to pursue their academics. It is a proven truth the idyllic beauty and serene atmosphere make an ideal place for scholastic pursuit and academic excellence.

Vaagdevi College of Engineering known for its quality education committed and dedicated faculty who inspire and impart teaching through the best practices. It is not at all an exaggeration to announce that every department in the college is equipped with the highly qualified and experience faculty members who have put in rich teaching and research experience. Visits of a few faculty members to the foreign universities are the added feathers in the cap of victories of the Institution.

## ABOUT THE DEPARTMENT

The department of Electronics & Communication Engineering at Vaagdevi College of Engineering has a top level quality assessment rating for teaching and reputation for research. It was established since inception of the college. The department is providing guidance to produce highly qualified engineers and researchers who shall contribute for the growth of Electronics & Communication Engineering has a student's strength of nearly thousand and guided by a team of devoted and diligent staff members. The laboratories are equipped with the state of art equipment in VLSI Design, DSP, Microwave, Analog & Digital Communication, Wireless Communication, Microcontrollers, Texas Instruments, AICTE sanctioned Modrobs - Advanced Digital Signal Processing Lab, Embedded Systems & Robotics Lab supported by eLSI - IIT Bombay.

## TOPICS COVERED

Introduction to MATLAB

- MATLAB & Matrices
- Special variables & other symbols
- Math & Assignment operators
- Programming in MATLAB
- Brief Introduction to MS-Office.

## OBJECTIVES

1. It is to train the students in IT and electronics path to develop the technology based on solutions for national problems.
2. To make every student an expert in MS-Office & MATLAB in which it would be useful for developing their own projects.

## ELIGIBLE CRITERIA

The program is open to all the ECE & EEE department Students of UG of all AICTE recognized colleges.

## REGISTRATION FEE

For Student 100/- (To be paid in cash).

## KEYNOTE SPEAKERS

Dr.M.Ranjeeth, Assistant Professor  
Dr.Hemantkumar Gupta, Assistant Professor  
Mr.M.Devadas, Assistant Professor

## FURTHER DETAILS CONTACT

1. Dr.M.Ranjeeth, Assistant Professor  
Contact Number: 7799665516
2. Dr. Hemantkumar Gupta, Assistant Professor  
Contact Number: 9929356251





## Invitation

*The Management, Principal, Faculty & Students of*  
Department of Electronics & Communication Engineering  
**VAAGDEVI COLLEGE OF ENGINEERING**

Autonomous

Bollikunta, Warangal,

Cordially invite you to the Inaugural Ceremony of

***“Introduction to MATLAB and MS-Office Software”***

A THREE DAY NATIONAL LEVEL WORKSHOP

Conducted By

Department of Electronics & Communication Engineering

On December 14<sup>th</sup> To 16<sup>th</sup> 2022 @10.00Am in A-223

**DR. K.PRAKASH**, *Principal VCEW*

**DR.K.THIRUPATHI RAO**. *Vice-Principal VCEW*

**DR P. PRASAD RAO**. *Principal VECW*

**SRI CH.DEVENDAR REDDY**, *General Secretary*

**SRI C.SATYAPAL REDDY**, *Joint Secretary*

**Will Grace the Occasion**

**Dr.M.Shashidhar**, *Dean Administration*

Convenor

Coordinators

**Dr. M. Ranjeeth**

**Dr.Hemant Kumar Gu**





VAAGDEVI COLLEGE OF ENGINEERING  
(AUTONOMOUS)  
BOLLIKUNTA, WARANGAL

**“Introduction to MATLAB and MS-Office Software”**  
A Three day National level workshop on 14<sup>th</sup> to 16th December, 2022

**Inauguration Programme Schedule**

*Welcome delegates on to the stage.*

- Jyothi Prajwalana
- Invocation
- Opening remarks by president of the event (VCE Principal)
- Convenor Report
- Address by Resource Person
- Closing Remarks by president of the event
- Vote of Thanks





VAAGDEVI COLLEGE OF ENGINEERING  
Bollikunta, Khilla Warangal (Mandal), Warangal Urban-506 005 (T.S)  
Department of Electronics and Communication Engineering

A Three Days Workshop on  
"An Introduction to MATLAB and MS-Office Software"

Session Schedule:

<u>Date &amp; Day</u>	<u>Session-I</u> (10 a.m. to 12.30 p.m.)			<u>Session-II</u> (1.30 p.m. to 4 p.m.)
14-12-2022 (Wednesday)	Inauguration (10 a.m. to 10.30 p.m.)	An efficient Utilization of MS- Office (10 a.m. to 12.30 p.m.)		B R
15-12-2022 (Thursday)	Introduction to MATLAB Software		E A	Introduction to MATLAB Software
16-12-2022 (Friday)	How to Write a Research Paper		K	More Info. About Research Paper





# VAAGDEVI COLLEGE OF ENGINEERING

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[www.vaagdevi.edu.in](http://www.vaagdevi.edu.in)

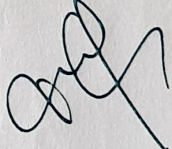
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Date:12/12/2022

## CIRCULAR

All the faculty members are informed that the department of ECE is conducting A Three day National level workshop on “Introduction to MATLAB and MS-Office Software” from 14/12/2022 to 16/12/2022. In this regard you are cordially invited for inaugural ceremony on 14/12/2022 at 10:00AM in A223.

*Dr. M. Ranjeeth*  
Coordinator

  
Dr. M. Shashidhar  
(HOD-ECE)





VAAGDEVI COLLEGE OF ENGINEERING  
AUTONOMOUS  
P.O.BOLLIKUNTA, WARANGAL – 506 005  
ELECTRONICS AND COMMUNICATION ENGINEERING

**REPORT ON Introduction to MATLAB&MS-OFFICE software**

The workshop is conducted by ECE department from 14<sup>th</sup> to 16<sup>th</sup> December 2022 in Vaagdevi College of Engineering



**Inauguration Ceremony**

**Objectives of conducting workshop:**

- To train each student basics of matrices of numbers which mostly focus on dimensional matrices called vectors.
- To develop the computational codes easily.
- To understand tool boxes easily. To know more about simulation.
- To give knowledge about, to create documents, resumes etc.



### **Overview about workshop:**

The aim of the workshop is to make the students learn the methods and designing that helps to understand more about simulation and based upon this students come to know handling data in different methods. The vision of the workshop to know the basic concepts that useful for the further steps and which would create a creativity of designing in ms office software.

### **Department of ECE**

Department of has taken the great opportunity to conduct the Introduction to MATLAB & MS-OFFICE software workshop in vaagdevi college of engineering. It deals with applications designed to help with productivity and completing common tasks on a computer, that each student of Electronics and Communication Engineering should have the knowledge on it. The Co-coordinators of this event are Dr. M. Ranjeeth and Dr. Hemant kumar Gupta. The convener of the event is Dr. M. Shashidhar, Head of the Department & Dean Administration.

### **Technical Report on Workshop:**

The workshop held in 3 days which focuses on the implementation of techniques to know better and based on that every one come to know few shortcuts. On day 1 every student involved in the basics which were already know, it gave glimpse of revision for upcoming two days basics, day 2 will carry in depth on concepts. On day 3 students went through complete practice of numerous problems that involve concept of new learning.



## DAY 1

### **1. Introduction to MATLAB:**

The basic concepts were explained like what is MATLAB, what is use of it, in further where to use and when to use? How to implement in different projects?

#### **1.1 Basics of MATLAB**

- It provides a comprehensive introduction, working with MATLAB includes entering commands and creating variables.
- Analyzing vectors and matrices.
- Properties of matrices
- Visualizing vector and matrix data
- Working with data types





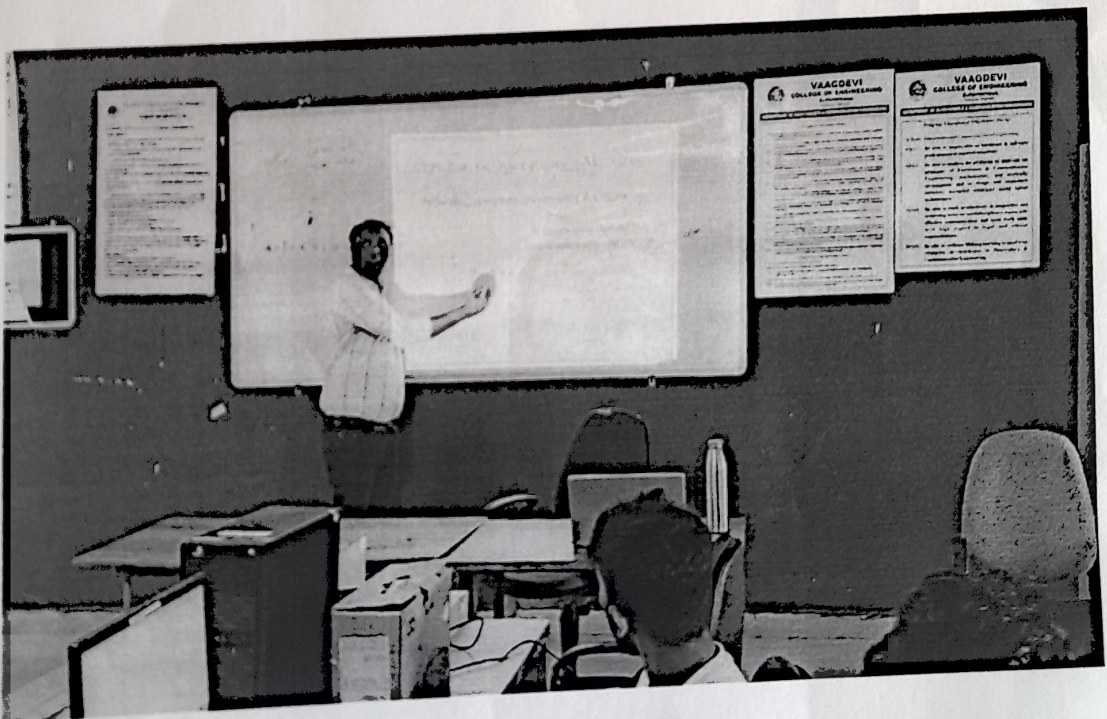
## DAY 2

### 2. Working with the MATLAB User Interface

The main features of the MATLAB integrated design environment and its user interfaces which gives the overview of user theme is reading data from files, plotting data, customizing plots, exporting graphics for using other applications

#### 2.1 Analysis and visualization with vectors

- Perform mathematical and statistical calculations with vectors.
- Perform calculations on whole datasets with a single command.
- Organize scripts into logical sections for development.
- Performing calculations with vectors
- Accessing and modifying values in vectors, formatting and sharing





### DAY 3

#### **3. MICROSOFT OFFICE**

Currently MSOffice being used across the world and all its applications are widely used for personal and professional purposes. MSWord is first released on October 23, 1983. Used in creating documents, templates can be created for professional use with the help MS Word. Work art, colors, images, animations can be added along with the text in the same file which is downloadable in form of a document. MS Excel , MS Powerpoint MS Access, MS Outlook, MS Onenote etc., each of it has different use. Explained each and every thing in detailed that can be easily understandable to everyone. Created few problems and solved it.

##### ➤ **Students' response:**

62 students have participated in the workshop. All the students were very excited in taking part in the workshop. All of them got hands on experience in designing document, powerpoint presentation and excel sheets. At the end of this workshop, they had a small competition organized among the participating students.

##### ➤ **Vote of Thanks:**

All the coordinators and the conveners thanked all the students for their active participation in the "Introduction to MATLAB&MS-OFFICE software" workshop. They all wish to continue the conduction of the workshops for the students to develop the skills. Everyone was glad for the constant support given in motivating the students and for arranging such a greatest workshop.





# VAAGDEVI COLLEGE OF ENGINEERING

## Autonomous

Bollikunta, Khilla Warangal (Mandal), Warangal Urban-506 005 (T.S), www.vaagdevi.edu.in

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Warangal,  
Date: 22/12/2022

To  
The Head of the department,  
Electronics and Communication Engineering,  
Vaagdevi College of Engineering,  
Warangal.

**Sub: Expenditure for "Introduction to MATLAB and MS-Office Software" A three day national level workshop on 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> December 2022.**

Respected sir,

These are the Expenditure details for "Introduction to MATLAB and MS-Office Software" A three day national level workshop conducted on 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> December 2022.

S. No	Item	Price per unit	Total Units	Total Price
1.	Stationary (Pen, Files etc)	Rs 25/-	62	Rs.1550/-
2.	Banner	Rs 650/-	1	Rs 650/-
3.	Marker	Rs.10/-	1	Rs.10/-
4.	Snacks(14/12/2022)	Rs 15/-	62	Rs.930/-
5.	Snacks(15/12/2022)	Rs 15/-	62	Rs.930/-
6.	Snacks(16/12/2022)	Rs 15/-	62	Rs.930/-
7.	Lunch for Resource person(14/12/2022)	Rs.200/-	2	Rs 400/-
8.	Lunch for Resource person(15/12/2022)	Rs.200/-	2	Rs 400/-
9.	Lunch for Resource person(16/12/2022)	Rs.200/-	2	Rs 400/-
<b>Total</b>				<b>Rs.6200/-</b>

Amount received from participants (Rs.100\*62) ----- Rs. 6200/-

Total amount of expenditure ----- Rs. 6200/-

Thanking you sir

*Dr. M. Ranjeeth*  
Yours sincerely  
Coordinators





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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

List of Participants for "Introduction to MATLAB and MS-Office Software" A three day national level workshop on 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> December 2022.

S.No	Name Of The Student	Signature
1	Ms Madala Sowmya	Sowmya
2	Mrs Madhabhushana Ashritha	Ashritha
3	Ms Rajasri Kandagatla	Raj
4	Ms Beeravelli Sai Sree	Saisree
5	Ms Donthi Vineela	Vineela
6	Ms Boddula Sai Sreshtha	Sai
7	Ms Mandala Nikhila	Nikhila
8	Mr Domakonda Sri Harinath	Sriharinath
9	Ms Mathangi Divya Jyothi	Divya Jyothi
10	Ms Panjala Tejaswini	Tejaswini
11	Mr Vodapelly Tharun	THARUN
12	Ms Muppa Laxmi Prasanna	Laxmi
13	Shaik Irfan Ahmed	Irfan
14	Ms Sadineni Gayathri	Gayathri
15	Mrs Kokkerala Srivani	Srivani
16	Mr Gampa Vamshikrishna	Vamshi
17	Mr Anamaineni Sharath	Sharath
18	Ms Sappidi Hemasree	Hemasree
19	Ms Keshoju Varshini	Varshini
20	Puskuri Pradeep Rao	Pradeep
21	Mrs Thumuganti Poojitha	Poojitha
22	Mr Vallem Prashanth Reddy	Prashanth
23	Ms Jannapureddy Sindhuja	Anabathula
24	Mr Anabathula Raghu	Raghu
25	Mr Gankidi Priyanka	Priyanka
26	Mr Bandi Charan Teja	Teja
27	Mr Sriramdas Mahesh	Mahesh
28	Ms Buru Anjali	Anjali
30	Mr Rayala Naveen	Naveen
31	Marapelli Akhila	Akhila
32	Sangem Srinivas	Srinivas
33	Mr Bandi Rahul	Rahul





# VAAGDEVI COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

34	Ms Chiluveru Mani Chandana	Mani Chandana
35	Mr Etukala Shiva Kumar	Shiva
36	Mr Marupaka Aravind	Aravind
37	Mr Dubhyala Sai Kiran	Sai Kiran
38	Mr Mohammad Saifuddin	Saifuddin
39	Ms Ookanti Akshara	Akshara
40	Mr Sirigadhi Harsha Vardhan	Harsha
41	Mr Nunavath Ganesh	Ganesh
42	Koutam Rakesh	Rakesh
43	Mr Dumpeti Chakri	Chakri
44	Mr Balaboina Likhitha	Likhitha
45	Mr Guguloth Ishwarya	Ishwarya
46	Potharaju Rahul Varma	Rahul
47	Dontharaboina Sunilkumar	Sunil
48	Ms Alloju Varshitha	Varshitha
49	Mr Asam Akhil	Akhil
50	Ms Bandi Kavya	Kavya
51	Chenna Teja	Teja
52	Mr Chepuri Shashank	Shashank
53	Mr Cheruku Manikanta	Manikanta
54	Mr Edla Sai Mahesh	Sai Mahesh
55	Mr Ganapuram Uday	Uday
56	Gande Ashwanth	Ashwanth
57	Mr Gotte Sravani	Sravani
58	Ms Gundla Supraja	Supraja
59	Mr Gundlapally Goutham Kumar	Goutham
60	Mr Gurrām Vinay Raj	Vinay Raj
61	Ms Gurrapu Rakshitha	Rakshitha
62	Ms Gurrapu Sushma	Sushma

Dr. M. Ranjeeth  
Coordinator

HOD





## VAAGDEVI COLLEGE OF ENGINEERING

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Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S), [www.vaagdevi.edu.in](http://www.vaagdevi.edu.in)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Feedback Form

Please take a moment to complete this feedback form. Your comments will assist us in improving our future workshops and seminars.

#### PARTICIPANT INFORMATION

Name of the Student:

16/12/2022

Title: "Introduction to MATLAB and MS-Office Software"

S.No	Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	The objectives of the training were clearly defined					
2	Participation and interaction were encouraged					
3	The topics covered were relevant to me					
4	The content was organized and easy to follow					
5	The materials distributed were helpful					
6	This training experience will be useful in my work					
7	The trainer was knowledgeable about the training topics					
8	The trainer was well prepared					
9	The training objectives were met					
10	The time allotted for the training was sufficient					
11	The class/lab room and facilities were adequate and					
12	Overall, the session was informative and valuable					

13 Please share any other comments here:

Thank you for your feedback





# VAAGDEVI COLLEGE OF ENGINEERING Autonomous

Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S), www.vaagdevi.edu.in

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Proposal for Workshop

On

### “Implementation of Circuit Design using Computer Aided Design Tools”

**Purpose:** The purpose of this workshop is to understand different tools for PCB Design and enables to design own PCB layout of a given circuit.

**Schedule:** 15<sup>th</sup> to 17<sup>th</sup> December, 2022

**Expected participants:** 60 students

**Coordinators:** Mrs. K. Swapna, Associate Professor

Mrs.V.Sabitha, Associate Professor

Mrs. R. Lavanya, Assistant Professor

**Speaker:** Mrs.K.Swapna, Mrs.V.Sabitha, Mrs.R.Lavanya, in association with Navica Communications PVT. LTD

**Requirements:** A105, A223 Lab

**Sources of income:** Registration Fee

**Estimated Expenditure:** 17,000/-

S.NO	Item	Quantity	Expenditure
1.	Stationary (Pen, Files etc)	60	Rs.2000/-
2	Resource Persons	2	Rs.12000/-
3	Banner	2	Rs.1000/-
4	Snacks	60	Rs.2000/-
Total Expenditure: Rs.17000/-			

*Sabitha* *Swapna*  
Coordinators



29/11/2022

To

The Principal.

Vaagdevi College of Engineering  
Bollikunta, Warangal.

Sir,

Sub: Conduction of Workshop for students request regards.

We the faculty of ECE department hereby inform you that, we are planning to organize a workshop on "Implementation of circuit design using Computer Aided Design Tools" from 15/12/22 to 17/12/22 for B.Tech II year ECE students.

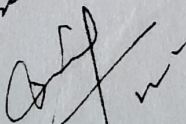
So, kindly grant us permission to conduct the same.

Yours Sincerely

Ms. K. Swapna  
Ms. V. Sabitha  
Ms. R. Lavanya

Forwarded  
to principal

for  
please give permission

  
29/11/22



A Three Day National Level Workshop  
On  
"IMPLEMENTATION OF CIRCUIT DESIGN USING  
COMPUTER AIDED DESIGN TOOLS"  
Organized by Department of ECE, on 15<sup>th</sup> to 17<sup>th</sup>  
December, 2022

Registration Form

1. Name: .....
2. Qualification: .....
3. Institution: .....
4. Address for Correspondence: .....
5. Phone/E-mail: .....
6. Accommodation Required: Yes/No

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course.

Place:

Date: Signature of the Applicant

Chief Patrons:

Sri.Ch. Devender Reddy  
Secretary & Correspondent  
Sri.C.Satyapal Reddy  
Joint Secretary

Dr.Ch. Vahini Devi Reddy  
Director, Vaagdevi Colleges

Smt.Ch. Vani Devi Reddy  
Director, VCE (MCA)

Patrons:  
Prof. K. Prakash  
Principal, Vaagdevi College of Engineering

Prof.P. Prasad Rao  
Principal, Vaagdevi Engineering College

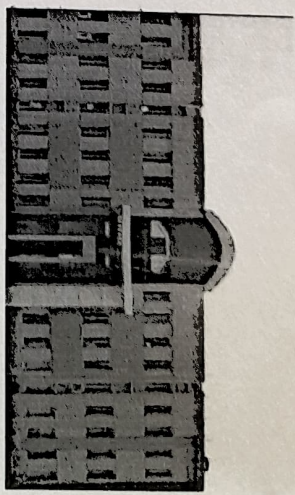
Co-Patron:  
Prof.K.Thirupathi Rao  
Vice-Principal, VCE-Warangal

Convener:  
Dr. M.Shashidhar, Associate Professor  
HOD, ECE Department  
Dean, Administration

Coordinators:  
Mrs.K.Swapna, Associate Professor  
Mrs. V. Sabitha, Associate Professor  
Mrs.R.Lavanya, Assistant Professor

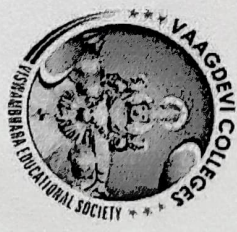
Organizing Committee Members:  
Mrs.B.Sreedevi      Dr. V.Sudheer Raja  
Mrs. S. Vaishali      Dr.M.Ranjeeth  
Mr.B.Vijay Kumar      Mr.Ch.Anil Kumar  
Mr.U.Kiran      Mrs.U.Saritha

A Three Day National Level Workshop  
On  
"IMPLEMENTATION OF CIRCUIT DESIGN USING  
COMPUTER AIDED DESIGN TOOLS"  
(15<sup>th</sup> to 17<sup>th</sup> December, 2022)



Faculty Coordinators  
Mrs.K.Swapna, Associate Professor  
Mrs. V. Sabitha, Associate Professor  
Mrs.R.Lavanya, Assistant Professor

Organized by  
DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING



VAAGDEVI COLLEGE OF ENGINEERING  
Autonomous  
Bollikunta, Warangal-506005  
Telangana, India.



## ABOUT THE INSTITUTE

Vaagdevi College of Engineering is established by the Viswambhara Educational Society in Warangal, in 1998, aims at catering to the higher educational needs of the people of the Telangana region in particular and the people from other states.

Initially, Vaagdevi College of Engineering started with four (4) Undergraduate Programmes (CSE, ECE, EIE & EEE). Now there are Seven Undergraduate programmes ECE, CSE, EEE, MECH, CIVIL, CSE (AI & ML), CSE (Data Science) and ten Postgraduate programmes excluding MBA & MCA. We have M. Tech with specializations in (i) Structural Engineering (ii) Power Electronics (iii) Power System Control & Automation (iv) Electrical Engineering (v) Thermal Engineering (vi) VLSI System Design (vii) Software Engineering (viii) Computer Science & Engineering (ix) Cyber Security and (x) Artificial Intelligence.

The colleges are located in a vast spiraling area of 70 acres near Mamnoon Air Port at a distance of 3km from the Warangal Railway Station. The college is situated in a rural setting of lush green fertile fields that would bring freshness and tranquility to the minds of students to acquire knowledge in many fields and to pursue their academics. It is a proven truth the idyllic beauty and serene atmosphere make an ideal place for scholastic pursuit and academic excellence.

.Vaagdevi College of Engineering known for its quality education committed and dedicated faculty who inspire

and impart teaching through the best practices. It is not at all an exaggeration to announce that every department in the college is equipped with the highly qualified and experience faculty members who have put in rich teaching and research experience. Visits of a few faculty members to the foreign universities are the added feathers in the cap of victories of the Institution.

## ABOUT THE DEPARTMENT

The department of Electronics & Communication Engineering at Vaagdevi College of Engineering has a top level quality assessment rating for teaching and reputation for research. It was established since inception of the college. The department is providing guidance to produce highly qualified engineers and researchers who shall contribute for the growth of Electronics & Communication Engineering has a student's strength of nearly thousand and guided by a team of devoted and diligent staff members. The laboratories are equipped with the state of art equipment in VLSI Design, DSP, Microwave, Analog & Digital Communication, Wireless Communication, Microcontrollers, Texas Instruments, AICTE sanctioned Modrobs - Advanced Digital Signal Processing Lab, Embedded Systems & Robotics Lab supported by eLSI - IIT Bombay.

## TOPICS COVERED

- Introduction to PCB, Types of PCBs
- PCB Designing, Career Prospects
- Annotation, Electric Rule Check
- Net List generation, Footprint creation

- Etching Process, Soldering process
- Circuit extraction, Testing the board

## OBJECTIVES

1. It is to train the students in IT and electronics path and to develop the technology based on solutions for national problems.
2. To make every student an expert in designing their own PCB boards which would be useful for developing their own projects.

## ELIGIBLE CRITERIA

The program is open to all the ECE & EEE department. Students of UG of all AICTE recognized colleges.

## REGISTRATION FEE

For Student 300/- (To be paid in cash).

## RESOURCE PERSONS

Mrs.K.Swapna, Associate Professor  
Mrs.V.Sabitha, Associate Professor  
Mrs.R.Lavanya, Assistant Professor  
In association with Navica Communications PVT. LTD

## FURTHER DETAILS CONTACT

1. Mrs.K.Swapna, Associate Professor  
Contact Number: 9491319626
2. Mrs.V.Sabitha, Associate Professor  
Contact Number: 9908418571
3. Mrs.R.Lavanya, Assistant Professor  
Contact Number: 9000642095



# A Three Day National Level Workshop on "IMPLEMENTATION OF CIRCUIT DESIGN USING COMPUTER AIDED DESIGN TOOLS"

Registration Form

vaishali\_s@vaagdevi.edu.in [Switch account](#)



\* Required

Email \*

Your email

Name of the student

Your answer

Roll No \*

Your answer

Branch \*

Your answer





Section \*

Your answer

Contact Number \*

Your answer

Email-Id \*

Your answer

Submit

Clear form

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Google Forms







**VAAGDEVI COLLEGE OF ENGINEERING**  
Autonomous

Bollikunta, Khita Warangal (Mandal), Warangal Urban-506 005 (T.S). [www.vaagdevi.edu.in](http://www.vaagdevi.edu.in)  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**CIRCULAR**

Date :14-12-2022

All the faculty members are informed that the department of ECE is conducting a three day National level workshop on "Implementation of Circuit Design Using Computer Aided Design(CAD) Tools" from 15<sup>th</sup> December,2022 to 17<sup>th</sup> December,2022. In this regard you are cordially invited for Inaugural ceremony on 15<sup>th</sup> December,2022 at 10:00 AM in A-223.

*[Handwritten signatures]*  
Co-ordinators

*[Handwritten signature]*  
HOD -ECE





## Invitation

*The Management, Principal, Faculty & Students of*  
Department of Electronics & Communication Engineering  
**VAAGDEVI COLLEGE OF ENGINEERING**

Autonomous

Bollikunta, Warangal,

Cordially invite you to the Inaugural Ceremony of  
“Implementation Of Circuit Design Using Computer Aided Design Tools”

A THREE DAY NATIONAL LEVEL WORKSHOP

Conducted By

Department of Electronics & Communication Engineering

On December 15<sup>th</sup> 2022 @10.00Am in A223.

**DR. K.PRAKASH**, *Principal VCEW*

**DR.K.THIRUPATHI RAO**. *Vice-Principal VCEW*

**DR P. PRASAD RAO**. *Principal VECW*

**SRI CH.DEVENDAR REDDY**, *General Secretary*

**SRI C.SATYAPAL REDDY**, *Joint Secretary*

**Will Grace the Occasion**

**Dr.M.Shashidhar**, *Dean Administration*

Convenor

Coordinators





## Invitation

*The Management, Principal, Faculty & Students of*  
Department of Electronics & Communication Engineering  
**VAAGDEVI COLLEGE OF ENGINEERING**

Autonomous

Bollikunta, Warangal,

Cordially invite you to the Inaugural Ceremony of

**“Implementation Of Circuit Design Using Computer Aided Design Tools”**

A THREE DAY NATIONAL LEVEL WORKSHOP

Conducted By

Department of Electronics & Communication Engineering

On December 15<sup>th</sup> 2022 @10.00Am in A223.

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**DR.K.THIRUPATHI RAO**. *Vice-Principal VCEW*

**DR P. PRASAD RAO**. *Principal VECW*

**SRI CH.DEVENDAR REDDY**, *General Secretary*

**SRI C.SATYAPAL REDDY**, *Joint Secretary*

**Will Grace the Occasion**

**Dr.M.Shashidhar**, *Dean Administration*

**Convenor**

**Coordinators**





**VAAGDEVI COLLEGE OF ENGINEERING**  
(AUTONOMOUS)  
BOLLIKUNTA, WARANGAL

**“Implementation of Circuit Design using Computer Aided Design Tools”**  
A Three day National level workshop on 15<sup>th</sup> to 17th December, 2022

**Inauguration Programme Schedule**

*Welcome delegates on to the stage.*

- Jyothi Prajwalana
- Invocation
- Opening remarks by president of the event (VCE Principal)
- Convenor Report
- Address by Resource Person
- Closing Remarks by president of the event
- Vote of Thanks





# VAAGDEVI COLLEGE OF ENGINEERING

(AUTONOMOUS)  
BOLLIKUNTA, WARANGAL

**“Implementation of Circuit Design using Computer Aided Design Tools”**  
A Three day National level workshop on 15<sup>th</sup> to 17<sup>th</sup> December, 2022

## Programme Schedule

### Day: 1

9:45am-10:00am: Registrations

10:00am-10:30am: Inauguration

10:30am-10:45am: Tea Break

10:45am-12:45pm: Technical session-1(Batch-1)

Hands on Session-1(Batch-2)

12:45pm-1:15pm: Lunch Break

1:15pm-3:00pm: Technical session-2 (Batch-1)

Hands on Session-2 (Batch-2)

3:00pm-3:15pm- Session Break

3:15pm-4:15pm: Technical session-3 (Batch-1)

Hands on Session-3(Batch-2)

### Day: 2

9:45am-11:00am: Technical session-1(Batch-2)

Hands on Session-1(Batch-1)

11:00am-11:15 am- Session Break

11:15am-12:45pm: Technical session-2 (Batch-2)

Hands on Session-2 (Batch-1)

12:45pm-1:15pm: Lunch Break

1:15pm-4:00pm: Technical session-3 (Batch-2)

Hands on Session-3 (Batch-1)

### Day: 3



9:45am-11:00am: Hands on Session (Batch-1& Batch-2)

11:00am-11:15 am- Session Break

11:15am-12:45pm: Hands on Session (Batch-1& Batch-2)

12:45pm-1:15pm: Lunch Break

1:15pm-2:45pm: Hands on Session (Batch-1& Batch-2)

2:45pm-3:00pm: Session Break

3:00pm-4:15pm: Valedictory





**VAAGDEVI COLLEGE OF ENGINEERING  
AUTONOMOUS  
P.O.BOLLIKUNTA, WARANGAL - 506 005**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**REPORT ON IMPLEMENTATION OF CIRCUIT DESIGN USING  
COMPUTER AIDED DESIGN TOOLS**

**ABOUT THE INSTITUTE**

Vaagdevi College of Engineering is established by the Vaagdevi Educational Society in Warangal in 1984 with a vision to provide educational needs of the people of the region and in particular to the people from other areas.

Initially, Vaagdevi College of Engineering started with four (4) Undergraduate Departments: ECE, EEE & EEE. Now there are seven Undergraduate Departments: ECE, EEE, EEE, EEE, EEE, CIVIL, CSE (AI & ML), CSE (Data Science) and an Postgraduate Department in MCA & M.Tech. We have M.Tech with specializations in (a) Electrical Engineering (b) Power Electronics (c) Power System Control & Automation (d) Embedded Systems (e) Thermal Engineering (f) VLSI System Design (g) Software Engineering (h) Computer Science & Engineering (i) Cyber Security and (j) Artificial Intelligence.

The college is situated in a beautiful area of 70 acres near Vaagdevi Air Port at a distance of 15 km from the Warangal Railway Station. The college is situated in a rural setting of lush green fields that would bring freshness and tranquillity to the minds of students to acquire knowledge in every fields and to pursue their academics. It is a place that offers a serene and beautiful environment to study and research in various fields.

Vaagdevi College of Engineering is known for its quality education and dedicated faculty who impart

and impart teaching through the best practices. It is not only an engineering college but also a center of excellence in the region as evidenced by the highly qualified and experienced faculty members who have put in their teaching and research experience. With a few faculty members in the design area, we are the first to have in the region.

**ABOUT THE DEPARTMENT**

The department of Electronics & Communication Engineering in Vaagdevi College of Engineering has a top level quality management system for teaching and research. It was established in the year 1984. The department provides guidance to students highly qualified engineers and researchers who shall contribute to the growth of Electronics & Communication Engineering has a number of faculty who are well and guided by a team of devoted and diligent staff members. The laboratory is equipped with the state of art equipment in VLSI Design, DSP, Micro-robot, Analog & Digital Communications, Wireless Communication, Microwave Lab, Test Instruments, AICTE sanctioned VLSI Lab - Advanced Digital Signal Processing Lab, Embedded Systems & Robotics Lab supported by AICTE Society.

**TOPICS COVERED**

- > Introduction to PCB Types of PCBs
- > PCB Designing Using Protel
- > Assembly, Electric Rule Check
- > Net List generation, Program creation

> Existing Process, Solving process

> Current processes, Using the tool

**OBJECTIVES**

1. To make every student an expert in designing their own PCB boards which would be useful for developing their own projects.

2. To make every student an expert in designing their own PCB boards which would be useful for developing their own projects.

**ELIGIBLE CRITERIA**

The program is open to all ECE & EEE department students of UG of all AICTE recognized colleges.

**REGISTRATION FEE**

Rs. 1000/- (One thousand only)

**RESOURCE PERSONS**

- Mr. K. Srinivas, Associate Professor
- Mr. N. Subrahmanya, Associate Professor
- Mr. J. Srinivas, Associate Professor
- Mr. S. Srinivas, Associate Professor

**FURTHER DETAILS CONTACT**

1. Mr. K. Srinivas, Associate Professor  
Contact Number: 9441119626
2. Mr. N. Subrahmanya, Associate Professor  
Contact Number: 9900411572
3. Mr. J. Srinivas, Associate Professor  
Contact Number: 9900641901

**A Three Day National Level Workshop**

**"IMPLEMENTATION OF CIRCUIT DESIGN USING COMPUTER AIDED DESIGN TOOLS"**

Organized by Department of ECE, on 15<sup>th</sup> to 17<sup>th</sup> December, 2022

**Registration Form**

1. Name: \_\_\_\_\_

2. Qualification: \_\_\_\_\_

3. Institution: \_\_\_\_\_

4. Address for Correspondence: \_\_\_\_\_

5. Phone/Email: \_\_\_\_\_

6. Accommodation Required: Yes/No

**Declaration**

The information provided is true to the best of my knowledge. If changed, I agree to abide by the rules and regulations of this course.

Place: \_\_\_\_\_  
Date: \_\_\_\_\_ Signature of the Applicant

**Chief Patron:**

Mr. C. Srinivas Reddy  
Professor & Coordinator  
Mr. C. Srinivas Reddy  
Joint Secretary

Dr. C. Srinivas Reddy  
Director, Vaagdevi College  
Dr. C. Srinivas Reddy  
Director, VCE (AI & ML)

**Patron:**

Prof. K. Srinivas  
Principal, Vaagdevi College of Engineering  
Prof. P. Prasad Rao  
Principal, Vaagdevi Engineering College

**Co-Patron:**

Prof. K. Srinivas Reddy  
Vice-Chancellor, VCE Warangal

**Convener:**

Dr. M. Subrahmanya, Associate Professor  
HOD, ECE Department  
Dean, Administration

**Co-ordinators:**

Mr. K. Srinivas, Associate Professor  
Mr. N. Subrahmanya, Associate Professor  
Mr. J. Srinivas, Associate Professor

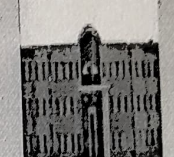
**Organizing Committee Members:**

- Mr. S. Srinivas, Mr. N. Subrahmanya, Mr. J. Srinivas, Mr. K. Srinivas
- Dr. M. Subrahmanya, Dr. M. Subrahmanya, Dr. M. Subrahmanya, Dr. M. Subrahmanya
- Mr. R. Srinivas, Mr. C. Srinivas, Mr. C. Srinivas, Mr. C. Srinivas
- Mr. S. Srinivas, Mr. S. Srinivas, Mr. S. Srinivas, Mr. S. Srinivas

**A Three Day National Level Workshop**

**"IMPLEMENTATION OF CIRCUIT DESIGN USING COMPUTER AIDED DESIGN TOOLS"**

(15<sup>th</sup> to 17<sup>th</sup> December, 2022)



**Faculty Coordinators**

Mr. K. Srinivas, Associate Professor  
Mr. N. Subrahmanya, Associate Professor  
Mr. J. Srinivas, Associate Professor

**Organized by**

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

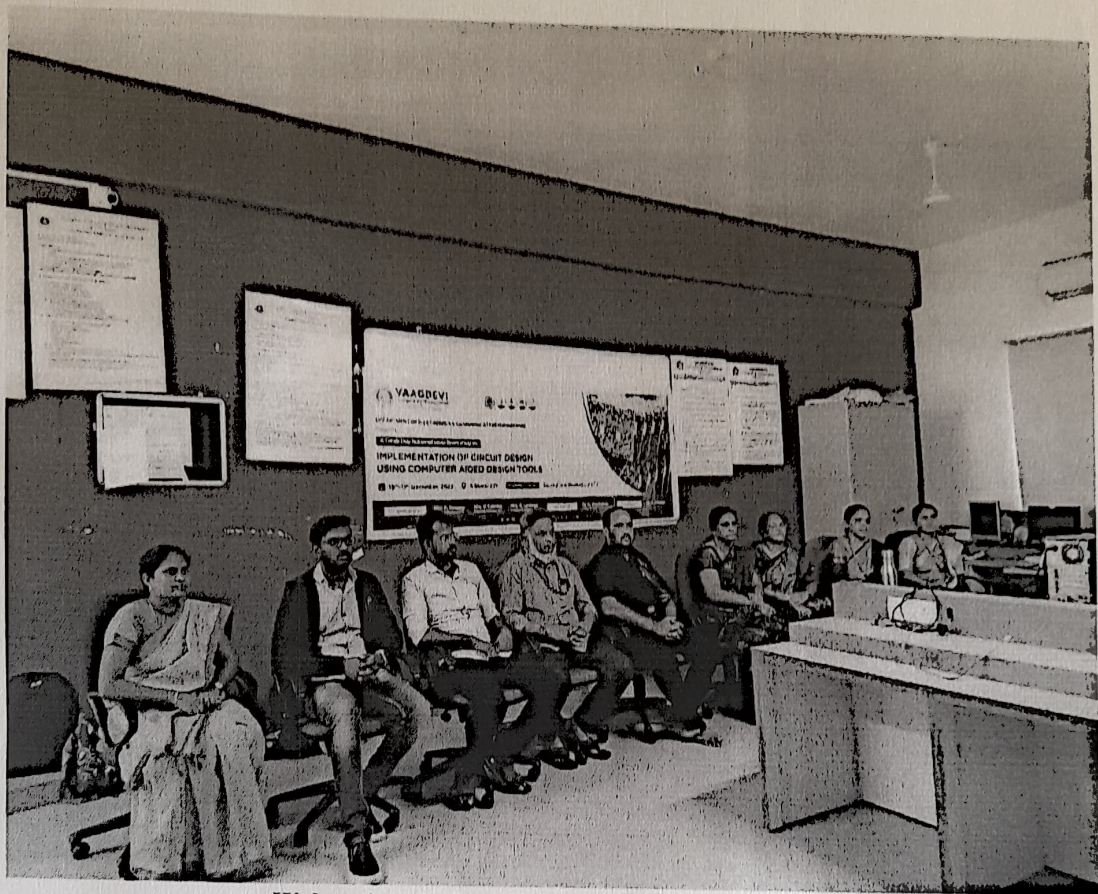


**VAAGDEVI COLLEGE OF ENGINEERING**

Autonomous  
Bollikunta, Warangal-506  
Telangana, India



The workshop is conducted by ECE department from 15<sup>th</sup> to 17<sup>th</sup> December, 2022 in Vaagdevi College of Engineering in association with NAVICA COMMUNICATIONS PVT LTD



Welcoming the Resource persons and Inauguration Ceremony

### **Objectives of conducting workshop:**

- It is to train the students in IT and electronics path and to develop the technology based on solutions for national problems.
- To make every student an expert in designing their own PCB boards which would be useful for developing their own projects.

### **Overview about workshop:**

The aim of the workshop is to make the students learn the method of designing and also manufacturing the PCB (printed circuit boards) using Proteus software. This includes the vision to receive an unparalleled education on the art of PCB designing with personal one-on-one attention. To design schematic of the PCB Design and adding PCB tracks to Design the PCB layout and plot the Gerber files. It also includes how to solder and test the circuits. Students end up spending up to 50% of their project development time and money due to improper electronic component selection using trial & error method for their minor & major projects.



### **Technical support:**

The workshop was conducted in collaboration with NAVICA Communications Pvt Ltd. NAVICA started in the year of 2015 with a moto of train the students according to industry standards in various categories. NAVICA is focused to build a bridge between colleges and corporate companies by providing required skills in IT and electronics industry with quality training. This helps the students to get the right placement for IT and Electronics industry and better trained resources, for the One who will be more productive from Day One. NAVICA team forms with academic and industry experience. The course structure has been designed by the Industry persons and enlightens the training programmes with live projects such enabling and enhancing student's employability.

### **Department of ECE:**

Department of ECE has taken the great opportunity to conduct the PCB workshop in Vaagdevi College of Engineering. The topic of workshop "**IMPLEMENTATION OF CIRCUIT DESIGN USING COMPUTER AIDED DESIGN TOOLS**" is a core area which every student of Electronics and Communication Engineering should have the knowledge on it. The Co-coordinators of this event are Mrs. K. Swapna, Mrs. V. Sabitha Mrs. R. Lavanya. The convener of the event is Dr. M. Shashidhar, Head of the Department & Dean Administration.

### **Technical Report on Workshop:**

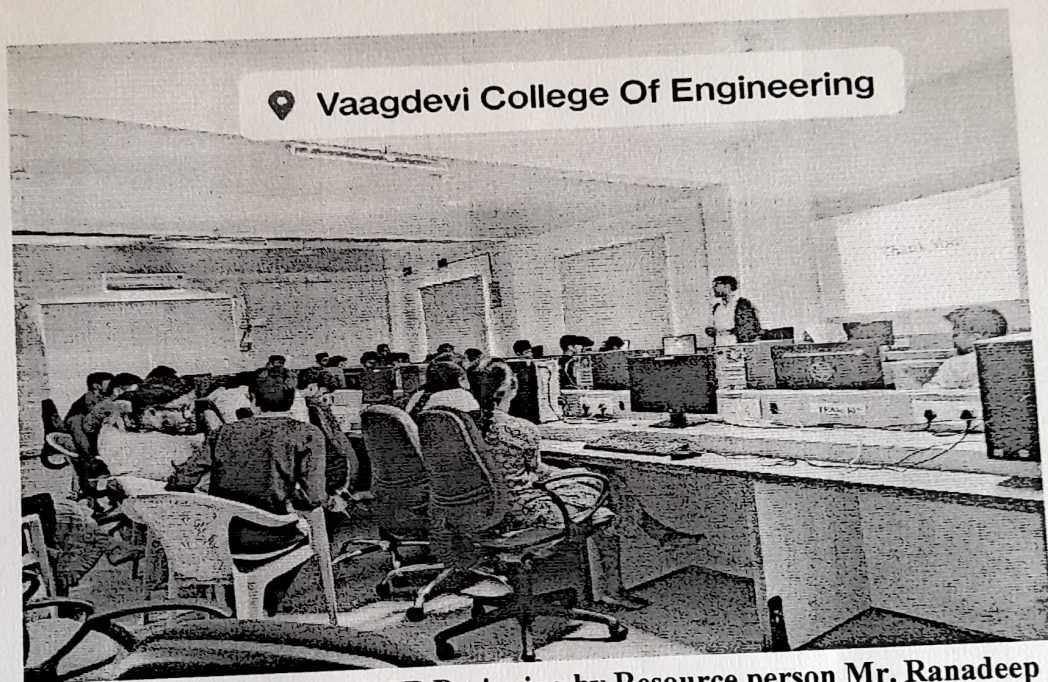
The Technical team of NAVICA Communication has described the 3 days work in a step by step process and in the form of three days. This is a 3-day program which focuses on advanced topics of PCB design along with Fabrication Process. On day 1, each participant will design a PCB layout using PROTEUS software and on day 2, they will carry out etching process on a silicon board provided to them. On day 3 they will perform Drilling Process using a Hand Driller, and finally will be made to assemble and solder the electrical components onto the board.



## DAY 1

### **1. Introduction to PCB:**

First of all they have given the information about the basic concepts like Father of PCB, classification of PCB, components in PCB and terminology used in PCB. This theory they have been explained using power point presentation.



**Key Information about PCB Designing by Resource person Mr. Ranadeep**

### **2. Editing & Routing:**

The Editing & Routing is the basic step. It gives the outlook or the layout of the circuit which we are designing. Editing and Routing makes us more convenient to design the circuit using PROTEUS software.





Process of printing the inner layers and removing the unwanted copper

### **3. Selection of the components from their respective library:**

They had said about the software PROTEUS and the method of selecting the active and passive components used in the construction of the circuit from the massive list of components. After selecting the components give the connections, now the circuit is ready in the software and print of the same circuit will be taken on the sheet.

## **DAY 2**

### **4. Toner Transfer Method:**

This is the step where the designed circuit will be pasted on the wafer and this will be passed through a temperature of about 160 to 180 degrees so that the tracks of the circuit will be remained on the wafer. The tracks will be a conductive type.

### **5. Drilling Technique:**

The board will be drilled with holes where the components have to be placed. The holes will be drilled in the board depending on the terminals available for the components in the design. The hole should be in the size so that the terminal has to be freely placed in the hole.

## **DAY 3**

### **6. Soldering Technique:**



The components that are placed in the board should be soldered to the track so that the circuit is connected as per the design. After this step the engraved PCB will be ready to use.



**Soldering by students**

#### **7. Verifying the Result:**

Students designed the circuit and verified the result.



**Students designed and tested Printed Circuit Boards for different circuits**

#### **Students' response:**

56 students have participated in the workshop. All the students were very excited in taking part in the workshop. All of them got hands on experience in designing the PCB boards. Students have been interacted with the industry experts. At the end of this



workshop, they had a small competition organized among the participating students and the winner is awarded with a “Certificate of Appreciation”.

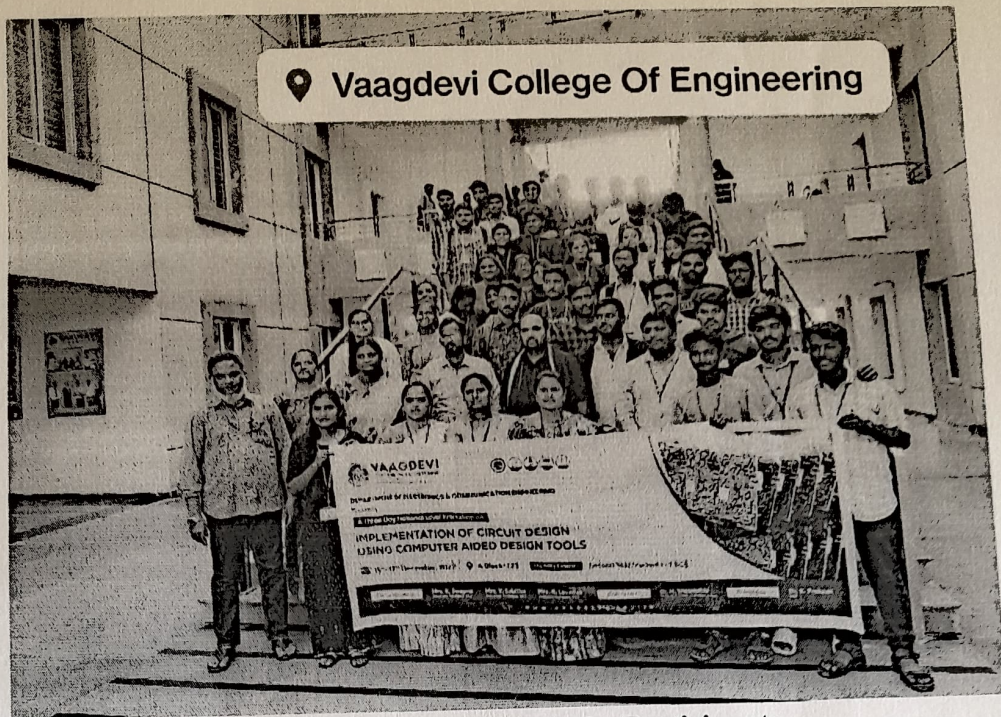
**Distribution of certificates:**

All the participants are awarded with the participation certificates by the company NAVICA COMMUNICATIONS. Dr.M.Shashidhar awarded the participation certificates to all the participants by hand. Sir personally congratulated all the students in the workshop and the coordinators for the grand success of the workshop. The trainers of NAVICA Communication have been felicitated by the convener.



**Certificates distributed by the Head of the Department Dr. M. Shashidhar and Senior faculty member**





**Day-3 Group photo of all the Participants**

**Vote of Thanks:**

All the coordinators and the conveners thanked all the students for their active participation in the “**Implementation of Circuit Design Using Computer Aided Design Tools**” workshop. They all wish to continue the conduction of the workshops for the students to develop the skills in the core topics. They even thanked the NAVICA Communication members for training the students in the better way. They were very happy for collaboration of the workshop with the NAVICA Communication. Everyone was glad for the constant support given in motivating the students and for arranging such a greatest workshop.



Name of the student	Roll No	Exam	Grade	University Number	Email-Id	15/12/22	16/12/22	17/12/22	AN			
28	vanga vishnu vardhan	21641A0486	ECE	B	8374883367	vanganvishnu10@gmail.com	FN	AN	FN	AN	FN	AN
29	Ch. Sagarika	21641A0487	ECE	B	6303451532	sagarikacheerla@gmail.com	Sagarika	Sagarika	Sagarika	Sagarika	Sagarika	Sagarika
30	Arjun Dongari	21641A0489	ECE	B	6302966982	arjunvarma7899@gmail.com	Arjun	Arjun	Arjun	Arjun	Arjun	Arjun
31	sathya karupati	21641A0490	ECE	B	9392448166	chinmukarupati@gmail.com	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya
32	Reethan Ruthwik panjala	21641A0491	ECE	B	9346383220	reethanpanjala@gmail.com	Reethan	Reethan	Reethan	Reethan	Reethan	Reethan
33	Karam likith babu	21641A0493	ECE	B	8106955419	Karamlikithbabu@gmail.com	Karam	Karam	Karam	Karam	Karam	Karam
34	Ganapathi	21641A0495	ECE	B	8374604599	bashtaboynaganapathi@gmail.com	Ganathi	Ganathi	Ganathi	Ganathi	Ganathi	Ganathi
35	PRANEETH	21641A0496	ECE	B	6309604479	praneethsirimalla@gmail.com	Praneeth	Praneeth	Praneeth	Praneeth	Praneeth	Praneeth
36	M. Ruthvik	21641A0497	ECE	B	9866535242	ruthvik15072003@gmail.com	Ruthvik	Ruthvik	Ruthvik	Ruthvik	Ruthvik	Ruthvik
37	K. Sathyanarayana Reddy	21641A0499	ECE	B	6309431336	sathyakompelly1336@gmail.com	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya
38	K. charan	21641A04A0	ECE	B	8885284481	kandulacharan2003@gmail.com	Charan	Charan	Charan	Charan	Charan	Charan
39	O. Ravali	21641A04A1	ECE	B	9110786179	ojalavaravali@gmail.com	O. Ravali	O. Ravali	O. Ravali	O. Ravali	O. Ravali	O. Ravali
40	Praveenraj Veeravena	21641A04A4	ECE	B	9948856122	Veeravenapraveenraj@gmail.com	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
41	Kanjarla Harsha Vardhan	21641A04A5	ECE	B	7780151500	kanjarlaharshavardhan@gmail.com	Kanjara	Kanjara	Kanjara	Kanjara	Kanjara	Kanjara
42	Chitti gopichandu	21641A04A7	ECE	B	9493302462	chittigopichandu@gmail.com	Chitti	Chitti	Chitti	Chitti	Chitti	Chitti
43	NomulaSathwika	21641A04A8	ECE	B	9849164383	nomulasunitha78@gmail.com	Nomula	Nomula	Nomula	Nomula	Nomula	Nomula
44	Eshwar Gopagani	21641A04B0	ECE	B	7702284123	eshwargopagani2002@gmail.com	Eshwar	Eshwar	Eshwar	Eshwar	Eshwar	Eshwar
45	Aeluka sriam	21641A04B2	ECE	B	8125460459	Sriramaeluka@gmail.com	Aeluka	Aeluka	Aeluka	Aeluka	Aeluka	Aeluka
46	Srikanth bellam	21641A04B6	ECE	B	9391586153	srikanthbellam00@gmail.com	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth
47	B. Abhiram charan	21641A04C1	ECE	B	6281670713	abhiramcharanayadav@gmail.com	Abhiram	Abhiram	Abhiram	Abhiram	Abhiram	Abhiram
48	Chirra joseph	22645A0403	ECE	A	9182066190	Josephchirra_007@gmail.com	Chirra	Chirra	Chirra	Chirra	Chirra	Chirra
49	G. siddhartha	22645A0404	ECE	A	7981365463	sidduguguloth9@gmail.com	G. Siddhartha	G. Siddhartha	G. Siddhartha	G. Siddhartha	G. Siddhartha	G. Siddhartha
50	K. Prachothan Reddy	22645A0406	ECE	A	8790730958	Prachothan Reddy_209	K. Prachothan	K. Prachothan	K. Prachothan	K. Prachothan	K. Prachothan	K. Prachothan
51	R. SURYATEJA	22645A0414	ECE	B	7330992026	rudrarapurusuryateja@gmail.com	R. Suryateja	R. Suryateja	R. Suryateja	R. Suryateja	R. Suryateja	R. Suryateja
52	Mirza Akbar Ali baig	22645A0418	ECE	B	9848783005	akbarakub344@gmail.com	Mirza	Mirza	Mirza	Mirza	Mirza	Mirza
53	GANDI SWATHI	21641A04A6	ECE	B	7816026336	swathigandi2004@gmail.com	Gandi Swathi	Gandi Swathi	Gandi Swathi	Gandi Swathi	Gandi Swathi	Gandi Swathi
54	M. Soosanna	22645A0408	ECE	A	8520920803	medharisoosanna@gmail.com	M. Soosanna	M. Soosanna	M. Soosanna	M. Soosanna	M. Soosanna	M. Soosanna
55	M. Rakesh	21641A0454	ECE	A	8333015894	rakeshmadipoju53@gmail.com	M. Rakesh	M. Rakesh	M. Rakesh	M. Rakesh	M. Rakesh	M. Rakesh
56	A. Sushank	21641A0419	ECE	A	7093610235	sushank709bunny@gmail.com	A. Sushank	A. Sushank	A. Sushank	A. Sushank	A. Sushank	A. Sushank

CO-ORDINATORS

HOD-ECE





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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**ACADEMIC YEAR 2022-2023**

**THREE DAY NATIONAL LEVEL WORK SHOP ON**  
**IMPLEMENTATION OF CIRCUIT DESIGN USING COMPUTER AIDED DESIGN TOOLS**

S.No	Name of the student	Roll No	Branch	S ection	Contact Number	Email-Id	Signature			
							15/12/22	16/12/22	17/12/22	
FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	Mohammad Sufyaan	21641A0401	ECE	A	9948120034	mdsufyaan182@gmail.com				
2	Priyanka	21641A0407	ECE	A	7893463227	Varma@123				
3	Nikshith	21641A0411	ECE	A	7013955291	keshaboinanikshith@gmail.com				
4	S.Nalin Koushik	21641A0414	ECE	A	9959118949	snalinkoushik@gmail.com				
5	Allam chandhu	21641A0422	ECE	A	91543966041	chandhunan1252@gmail.com				
6	B.saitija	21641A0428	ECE	A	8008019407	saitejabollapelly3@gmail.com				
7	Chinagari Sunitha	21641A0432	ECE	A	7842747534	sunithachinagari34@gmail.com				
8	Akhil Chityala	21641A0437	ECE	A	7780564440	akhilchityala143@gmail.com				
9	Dara Pallavika	21641A0438	ECE	A	7981538427	darapallavika@gmail.com				
10	G.Manasa	21641A0442	ECE	A	7780531325	manasagouda510@gmail.com				
11	Jakkula Ravikumar	21641A0445	ECE	A	9491903874	ravikumarijakkula823@gmail.com				
12	Saitharun Kanukuntla	21641A0446	ECE	A	8143824548	Saitharunkanukuntla8@gmail.com				
13	kataboina vardhan	21641A0448	ECE	A	8317686190	kataboinavardhanvardhan2261@gmail.com				
14	Sanka.Saikishore	21641A0449	ECE	A	9381397480	saikishoresanka@gmail.com				
15	Nikhitha	21641A0452	ECE	A	9100261610	lavudyanikhitha4@gmail.com				
16	more vinoothna	21641A0457	ECE	A	9248415975	morevinoothna1432@gmail.com				
17	shailesh varma	21641A0460	ECE	A	9014283485	shaileshvarma29@gmail.com				
18	B.VENKATESH	21641A0464	ECE	B	7893907747	bvenkatesh21092003@gmail.com				
19	Shaik Kareem ullah	21641A0470	ECE	B	6281236292	shaikikareemullah85@gmail.com				
20	Shazia Mehnaaz	21641A0471	ECE	B	9700802486	Shaziamehnaaz786@gmail.com				
21	sheela.Hanikrishna	21641A0472	ECE	B	9014105714	harikrishnasheela@198gmail.com				
22	saivardhan	21641A0477	ECE	B	9347250162	saivardhan2508@gmail.com				
23	Sumayya Sultana	21641A0478	ECE	B	9949440298	21641a0478@vaagdevi.edu.in				
24	T. Pavani	21641A0480	ECE	B	7013664091	thatikantipavani08@gmail.com				
25	Thota.varsha sri	21641A0481	ECE	B	7075755624	varshasrithota18@gmail.com				
26	Thumma pavani	21641A0483	ECE	B	8523018310	Pavanithumma51@gmail.com				
27	veldandi.soumya	21641A0485	ECE	B	9959889033	soumyaveladandi17@gmail.com				





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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

## Feedback Form

Please take a moment to complete this feedback form. Your comments will assist us in improving our future workshops and seminars

### PARTICIPANT INFORMATION

Name of the Student:

Date: 17/12/2022

Title: "Implementation Of Circuit Design Using Computer Aided Design Tools "

S.No	Description	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	The objectives of the training were clearly defined					
2	Participation and interaction were encouraged					
3	The topics covered were relevant to me					
4	The content was organized and easy to follow					
5	The materials distributed were helpful					
6	This training experience will be useful in my work					
7	The trainer was knowledgeable about the training topics					
8	The trainer was well prepared					
9	The training objectives were met					
10	The time allotted for the training was sufficient					
11	The class/lab room and facilities were adequate and comfortable					
12	Overall, the session was informative and valuable					

Please share any other comments here:

13

**Thank you for your feedback**





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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Warangal,  
Date: 19/12/2022

To  
The Head of the department,  
Electronics and Communication Engineering,  
Vaagdevi College of Engineering,  
Warangal.

**Sub: Expenditure for "Implementation of Circuit Design using Computer Aided Design Tools"  
A three day national level workshop on 15<sup>th</sup>, 16<sup>th</sup> and 17<sup>th</sup> December 2022.**

Respected sir,

These are the Expenditure details for "Implementation of Circuit Design using  
Computer Aided Design Tools" A three day national level workshop conducted on 15<sup>th</sup>, 16<sup>th</sup> and 17<sup>th</sup>  
December 2022.

S. No	Item	Price per unit	Total Units	Total Price
1.	Stationary (Pen, Files etc)	Rs 25/-	56	Rs.1400/-
2.	Marker	Rs.20/-	1	Rs.20/-
3.	Snacks(15/12/2022)	Rs 10/-	56	Rs.560/-
4.	Snacks(16/12/2022)	Rs 10/-	56	Rs.560/-
5.	Snacks(17/12/2022)	Rs 10/-	56	Rs.560/-
6.	Lunch for Resource person(15/12/2022)	Rs.200/-	2	Rs 400/-
7.	Lunch for Resource person(16/12/2022)	Rs.200/-	2	Rs 400/-
8.	Lunch for Resource person(17/12/2022)	Rs.200/-	2	Rs 400/-
9.	Resource Persons			Rs.12500/-
<b>Total</b>				<b>Rs.16,800/-</b>

Amount received from participants (Rs.300\*56) ----- Rs. 16800/-

Total amount of expenditure ----- Rs. 16,800/-

Balance amount ----- NIL

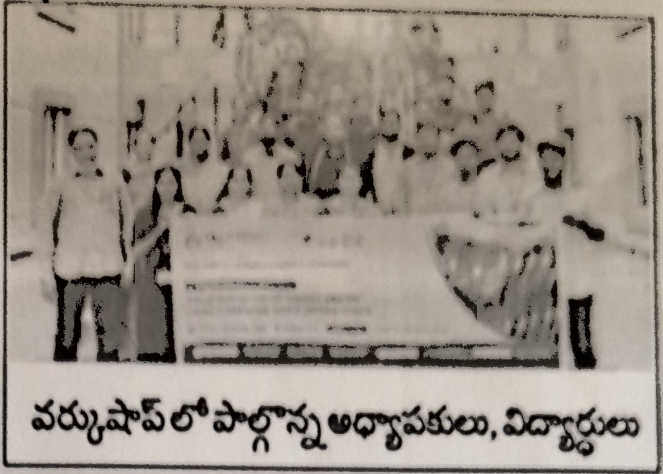
Thanking you sir

Yours sincerely  
Coordinators



## ఈసీఈ విద్యార్థులకు 3 రోజుల వర్క్ షాప్

ఖిలావరంగల్, డిసెంబర్ 17  
(ప్రభుస్యూన్) : నగరంలోని  
బొల్లికుంట వాగ్డేవి ఇంజ  
నీరింగ్ కళాశాలలో ఈసీఈ  
విభాగం వారు ఇంప్లిమెంట్  
షన్ ఆఫ్ సర్క్యూట్ డిజైన్  
యూజింగ్ కంప్యూటర్  
ఎయిడెడ్ డిజైన్ టూల్స్  
అను అంశంపై ద్వితీయ




వర్క్ షాప్ లో పాల్గొన్న అధ్యాపకులు, విద్యార్థులు

సంవత్సరం విద్యార్థులకు డిసెంబర్ 15 నుండి 17 వరకు మూడు రోజుల పాటు  
వర్క్ షాప్ నిర్వహించారు. ఇందులో భాగంగా ప్రో టుస్ టూల్ ద్వారా సర్క్యూట్  
సిములేషన్, డిజైన్ ఎలా చేయాలో విద్యార్థులకు వివరించారు. హార్ట్ వేర్ లో  
సర్క్యూట్ డిజైన్ ఎలా చేయాలో నావికా కమ్యూనికేషన్ సీనియర్ ఇంజనీర్ రణదేవ్  
వివరించారు. ఈసీఈ విభాగం అధిపతి డా. శశిధర్, అధ్యాపకులు డా. శ్రీదేవి, డా.  
సుదీర్ రాజా, శశి, స్వప్న, సబిత, లావణ్య కళాశాల విద్యార్థులు పాల్గొన్నారు.



Report on “VLSI Design Learn Finite State Machines and Their Hardware Synthesis” on 4<sup>th</sup> October 2022

Event Brochure:

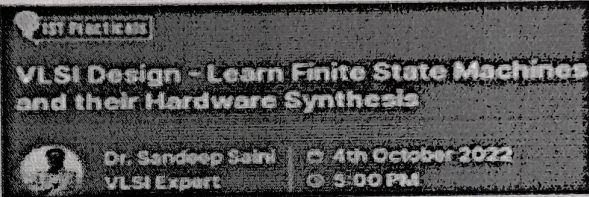
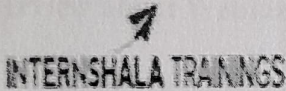


**INDUSTRY INSTITUTE INTERACTION  
CELL (IIC)**

**CIRCULAR**

I am happy to inform you that we are organizing a special IST Practical's VLSI Design webinar for all students of Vaagdevi College of Engineering.

Request you to share this link with all ECE students (first to final year): <https://internshala.com/i/ISTP23-DB>



**About the speaker**

**Dr. Sandeep Saini,**  
VLSI Expert

Dr. Sandeep Saini is working as an Assistant Professor in the Department of Electronics and Communication Engineering at LNMIIT, Jaipur. He has taught Robotics and Electronics subjects in India and abroad for more than a decade to more than 8000 students.

*For a strong relationship with the industry and Government bodies*

members are informed to circulate and keep their WhatsApp statuses.

An online webinar was organised for the students /faculties on VLSI Design Learn Finite State machines and hardware synthesis on 4<sup>th</sup> October 2022 under the banner of IIC cell. The speaker of this event was **Dr. Sandeep Saini**, VLSI Expert Dr. Sandeep is working as an Assistant Professor in the Department of Electronics and Communication Engineering at LNMIIT, Jaipur. He received his B.Tech. Degree in Electronics and Communication Engineering from IIIT, Hyderabad in 2008 and completed his MS from the same institute in 2010. Later he received his Ph.D. from Malaviya National Institute of Technology, Jaipur. He has taught Robotics and Electronics subjects in India and abroad for more than a decade to more than 8000 students. Students from Electronics and Communication participated in the event. Introduction on digital design of sequential circuit was explained and the session was



made interactive. The Dr. Sandeep Saini conducted a session on Finite State Machines & their Hardware Synthesis.

#### **Objectives of conducting the Webinar:**

- The purpose of this Webinar is to familiarize the Faculty/students with “VLSI Design Learn Finite State Machines and Their Hardware Synthesis”.
- This aims to provide the Faculty/students with a comprehensive understanding of the various features and functionalities of Finite State Machines, enabling them to effectively design and develop advanced digital logic design Circuits.

#### **Overview about Webinar:**

- In VLSI, a Finite State Machine (FSM) is an abstract mathematical model used to describe the behaviour and operation of digital logic circuits that possess discrete states. FSMs are a fundamental concept in digital design, enabling the implementation of sequential logic and memory elements, making them essential for building efficient and reliable digital systems.
- A Finite State Machine in VLSI consists of several key components, each serving a specific purpose in defining the behaviour and functionality of the machine. These components work together to enable the FSM to operate as a sequential logic circuit:

The link for the session is [https://www.youtube.com/watch?v=8\\_ucgdjTht4](https://www.youtube.com/watch?v=8_ucgdjTht4). After every topic conducted, a quick quiz was scheduled for the participants. It is a centralized activity.

Dr M. Shashidhar HOD Electronics and Communication Department helped in all possible way to make this event successful.

Some photos of the event are also attached.



youtube.com/watch?v=0\_ucgdjTHt4

Search

# Traditional approach

- Count the number of heads and tails
- Store them in registers
- Act according to the current values

INTERSHALA TRAININGS

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Top chat reply

Arsh Kumar: good evening sir

Ravi Kumar: good evening sir

Dhanalakshmi Kadiri: good evening sir

Ashu: Will they provide any certificate?

pankaj rangarao: good evening sir

Intershala: Comment your answers!

Siva Subakar: good evening sir

Hiday Chankar Banerjee: Good Evening Sir

Bhupathi Jayasika Perera: I am not aware

Arunid Srinivasulu: EE: good evening sir

Bogra Prakash Hathi: iam not aware

Gudim Vijay D.: BIT Gorakhpur de kaun kaun hai

Kavita Hathi K. B.: It is in finite state

Anjali Kumari: not aware

UZAIR SHAHID: I know

3:48 PM 1/20/2023

Search

# FSM approach

- We do not need to count the numbers
- We just observe if the number is odd or even
- So, we can solve it using two states.

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Top chat

Sudhakar Reddy: Government Engineering College, Anaparthi, West Godavari

Sudhakar Reddy: Government Engineering College, Anaparthi, West Godavari

Shivendra Kumar: IIT Madras

Shivendra Kumar: IIT Madras

MD Faraz: IIT Madras

Learn Machine Learning: IIT Madras

Siva Subakar: IIT Madras

Uzair Shahid: IIT Madras

Shivendra Kumar: IIT Madras

Shivendra Kumar: IIT Madras

Shivendra Kumar: IIT Madras

pankaj rangarao: Activate Windows

Say something

youtube.com/watch?v=0\_ucgdjTHt4

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# Quick Quiz

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Top chat

SUDHARASANI PALANISAMY: both

Susmitha M: both current and ip

vangeti vamehreddy: both current state and input

Breniketh KS: both

Karanish Poojitha: both

Dhevasena K: both air

Shivendra Kumar: not visible

Luvanya Yara: both

Sandeep Solanki: both

Swaroop Tvs: both

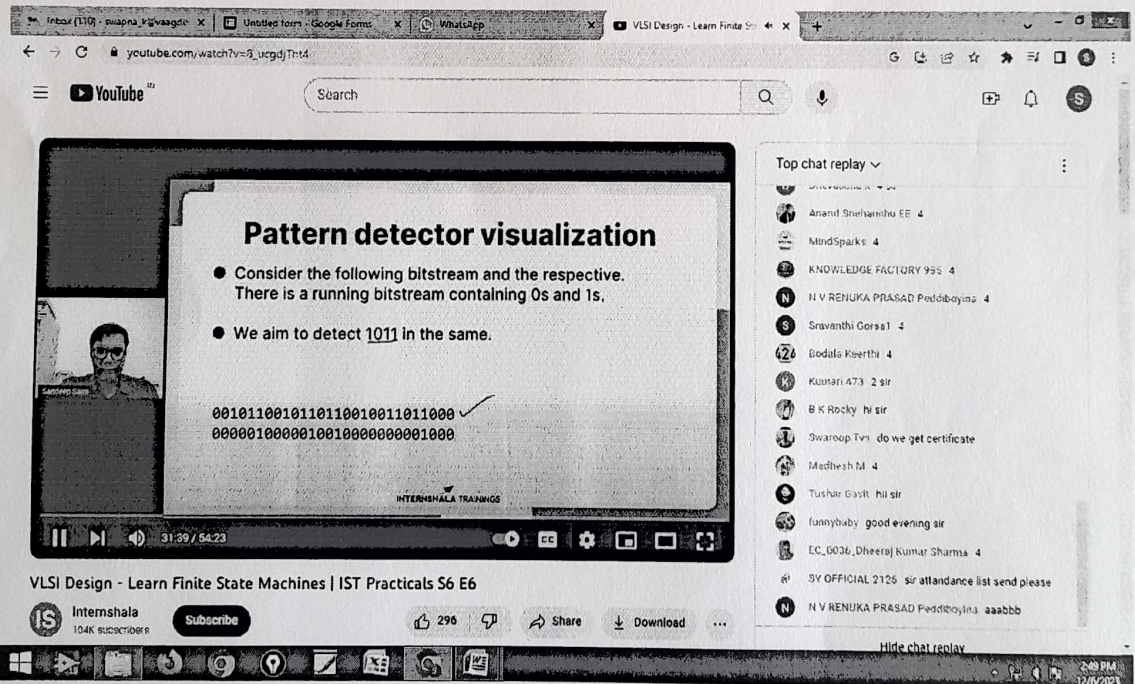
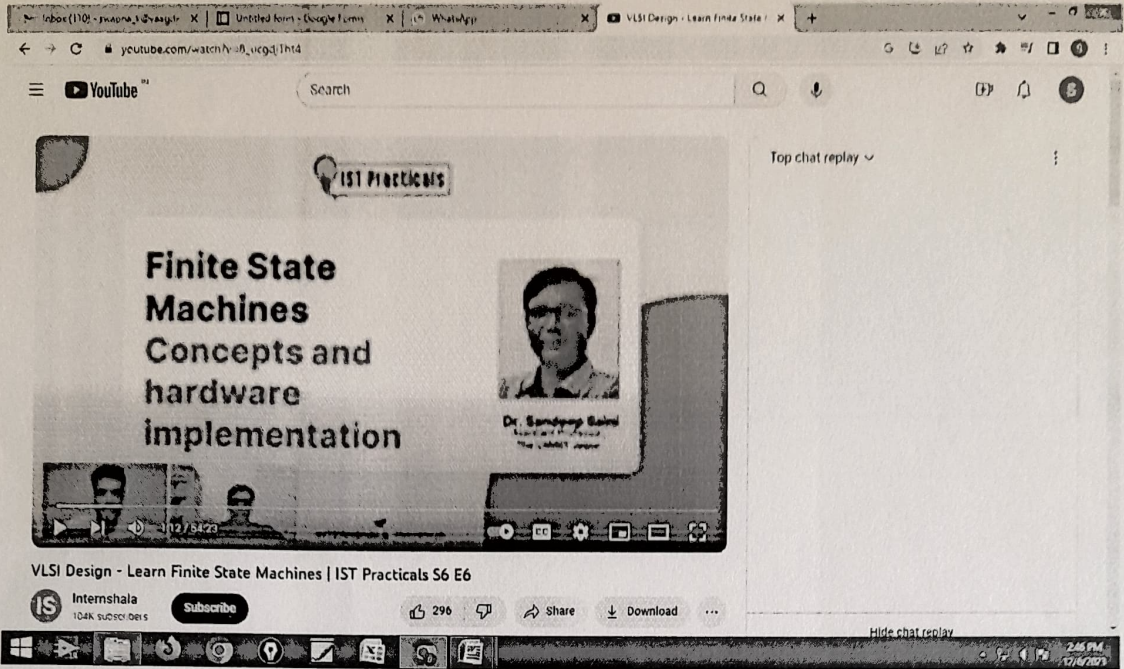
Veni Vanlaku: current state and input

Keti Samalakar: both

pankaj rangarao: Activate Windows

Say something





Submitted by

Dr. Pankaj Rangate

IIIC coordinator  
ECE

HOD



To  
HoD  
MBA Department  
Vaagdevi Colleg of Engineering,  
Bollikunta, Warangal

**Subject:** Request for Permission to conduct a Two day workshop on "Empowering Business with SAP" for MBA Students.

Respected Sir,

I am seeking permission to conduct an SAP workshop for our MBA students from 5-9-2022 to 6-9-2022 to provide them with essential skills in SAP software, focusing on modules like Finance, Sales, and HR. This hands-on training will enhance their understanding of ERP systems, preparing them for careers in consulting, operations, and finance. We believe this workshop will add significant value to their learning and employability.

Thank you for considering this request. I look forward to your approval.

Sincerely,  
Dr. Ch. Bhargavi & Dr. M. Murali,  
Assistant Professors,  
MBA Department,  
Vaagdevi College of Engineering.





Viswambhara Educational Society

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Bollikunta, Warangal - 506 005 (Telangana State)

Vaagdevi College of Engineering  
MBA Department  
20-8-2022

**Subject:** Approval for Conducting "Empowering Business with SAP" Workshop for MBA Students.

Dear Organizers,

I am pleased to approve your request to conduct an SAP workshop for our MBA students. This initiative aligns well with our commitment to equipping students with industry-relevant skills, and I believe the hands-on training in key SAP modules will be highly beneficial for their future careers.

Please proceed with the necessary arrangements, and feel free to reach out if you require further support in organizing the workshop.

Thank you for your dedication to enhancing our students' learning experience.

Best regards,  
Dr. Y. Bhaskar Rao  
MBA Department  
Vaagdevi College of Engineering

*Remitted*  
*BWR*





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## About Workshop:

A SAP (Systems, Applications, and Products in Data Processing) workshop for MBA students is typically a practical training session focused on teaching the basics of SAP software, which is widely used in business for enterprise resource planning (ERP). SAP workshops introduce students to SAP modules relevant to business functions, such as finance (SAP FICO), sales and distribution (SAP SD), human resources (SAP HR), and materials management (SAP MM).

## Key Takeaways:

An SAP workshop for MBA students teaches the basics of SAP software used to manage business processes. Students learn about key modules, such as Finance, Sales, and HR, and get hands-on practice using the system. They gain skills in data entry, report creation, and data analysis, which helps with real-world decision-making.

## Two Day Workshop on Empowering Business with SAP

5<sup>th</sup> to 6<sup>th</sup> Sep, 2022

organized by  
Department of Business Management

Coordinators  
Dr. Ch. Bhargavi & Dr. M. Murali

Head  
Dr. Y. Bhaskar Rao





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An outline of the Two day workshop on "Empowering Business with SAP" is provided in the schedule. Depending on participant engagement and individual interests, each session can be modified.

**Duration:** 2 Days (5-9-2022 to 6-9-2022)

**Target Audience:** MBA Students

**Location:** Vaagdevi College of Engineering, Warangal

**Facilitators:** Mr. Bharath, SAP Consultant, Futech Solutions, Hyderabad

## Day 1: Introduction to SAP and Business Processes

**9:00 AM - 9:30 AM:** Registration and Welcome

- Icebreaker activity
- Overview of workshop objectives

**9:30 AM - 10:30 AM:** Understanding ERP and SAP

- What is Enterprise Resource Planning (ERP)?
- Overview of SAP as an ERP solution
- Key benefits of implementing SAP in organizations

**10:30 AM - 10:45 AM:** Break

**10:45 AM - 12:15 PM:** SAP Modules and Their Functions

- Introduction to key SAP modules (Finance, Sales, Production, etc.)
- Role of each module in business operations
- Case studies of successful SAP implementations

**12:15 PM - 1:15 PM:** Lunch Break

**1:15 PM - 2:45 PM:** Navigating the SAP Interface

- Hands-on session: Introduction to the SAP GUI
- Basic navigation and functions within the SAP system

**2:45 PM - 3:00 PM:** Break

**3:00 PM - 4:30 PM:** Business Process Integration with SAP

- How SAP integrates various business processes
- The concept of end-to-end process management
- Discussion of real-world applications and challenges

**4:30 PM - 5:00 PM:** Recap of Day 1

- Key takeaways
- Q&A session





**Day 2: Advanced SAP Applications and Strategy**

**9:00 AM - 10:15 AM: SAP Analytics and Business Intelligence**

- Introduction to SAP BI tools and reporting
- Importance of data-driven decision-making
- Hands-on session: Creating basic reports in SAP

**10:15 AM - 10:30 AM: Break**

**10:30 AM - 12:00 PM: Supply Chain Management with SAP**

- Overview of SAP's supply chain functionalities
- Discussion on inventory management, logistics, and procurement
- Case studies on optimizing supply chains using SAP

**12:00 PM - 1:00 PM: Lunch Break**

**1:00 PM - 2:15 PM: SAP and Digital Transformation**

- Role of SAP in digital transformation initiatives
- Integration with emerging technologies (IoT, AI, etc.)
- Discussion on the future of business with SAP

**2:15 PM - 2:30 PM: Break**

**2:30 PM - 3:45 PM: Developing an SAP Implementation Strategy**

- Steps in planning and executing an SAP implementation
- Key considerations for successful deployment
- Group activity: Developing a mock implementation plan

**3:45 PM - 4:30 PM: Final Q&A and Workshop Wrap-Up**

- Summary of key learnings
- Discussion on further resources for SAP education
- Feedback collection from participants





## Workshop Report: "Empowering Business with SAP"

### Event Details:

**Dates:** 2 Days (5-9-2022 to 6-9-2022)

**Location:** Vaagdevi College of Engineering

**Facilitator:** Mr. Bharath, SAP Consultant, Futech Solutions, Hyderabad

**Participants:** 175

### Overview

The "Empowering Business with SAP" workshop provided MBA students with a comprehensive introduction to SAP as an ERP solution, combining theoretical insights with practical applications over two days.

### Day 1 Highlights

- **Understanding ERP and SAP:** Participants learned the basics of ERP and the benefits of using SAP.
- **SAP Modules:** Exploration of key modules (Finance, Sales, and Production) with case studies.
- **Navigating SAP:** Hands-on session for familiarization with the SAP interface.
- **Business Process Integration:** Discussion on how SAP integrates various business functions.

### Day 2 Highlights

- **SAP Analytics:** Introduction to SAP BI tools with a hands-on reporting session.
- **Supply Chain Management:** Overview of SAP's supply chain functionalities through real-world examples.
- **Digital Transformation:** Discussion on SAP's role in digital initiatives and emerging technologies.
- **Implementation Strategy:** Group activity to develop a mock SAP implementation plan.

### Outcomes

- **Increased Knowledge:** Participants reported a better understanding of SAP applications.
- **High Engagement:** Strong participation, especially during hands-on sessions.
- **Positive Feedback:** Overall satisfaction with the workshop content and delivery.

### Recommendations

- Future workshops could include advanced SAP topics and more practical sessions.

### Conclusion

The workshop effectively equipped MBA students with essential skills in SAP, enhancing their understanding of its impact on business processes.





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List of Students participated in the two day workshop on "Empowering Business with SAP" from 5-9-2022 to 6-9-2022.

S. no	Roll Number	Name of the participant
1	20641E0012	HINGE PRASHANTH
2	20641E0019	MOHAMMAD RAHEEM
3	20641E0022	NUNAVATH PRAVEEN
4	20641E0023	PALLA VISHNU
5	20641E0024	PANJALA SHASHI KUMAR
6	20641E0028	RAMPELLI SAIKRISHNA
7	20641E0033	BOMMINENI SHIVAKRISHNA
8	20641E0042	NALLA KIRAN
9	20641E0047	Y SREENIVAS
10	20641E0059	INUMULA PRAMODKUMAR
11	20641E0060	JAKKA HARISH
12	20641E0080	SAKETH REDDY GOPAVARAM
13	20641E0082	INJA NIKITHA RACHEL
14	20641E0086	PEDIDELA SHIRISHA
15	20641E0004	CHEEKATI SINDHUJA
16	20641E0005	CHINNAPELLI MADHU
17	20641E0006	DEDAVATH SIDDU
18	20641E0007	DUGGI NAVEEN
19	20641E0008	EDLA LAVAN KUMAR
20	20641E0009	ENUMULA RAJKUMAR
21	20641E0010	ERGI MADHAVI
22	20641E0011	GUGULOTH GANDHI BABU
23	20641E0012	HINGE PRASHANTH
24	20641E0013	JEEDI MEENA
25	20641E0031	VEMULA RAKESH
26	20641E0032	BAYYA SRILATHA
27	20641E0033	BOMMINENI SHIVA KRISHNA
28	20641E0034	DARIGI SANDEEP
29	20641E0035	DUBASI PALLAVI
30	20641E0036	KANUKUNTLA SHASHI PREETHAM
31	20641E0037	KANUKUNTLA SIDDHANTH
32	20641E0038	KUCHANA SARITHA
33	20641E0039	MUDDA PRAMOD
34	20641E0040	MUDIGANTI NAVEENA
35	20641E0049	YERABATI RISHIK KOUDINYA
36	20641E0050	MD JALEEL PASHA
37	20641E0051	AELA AVINASH
38	20641E0070	SANDHI SRIKANTH
39	20641E0071	SHAIK SANA
40	20641E0072	SRIKOTI DEEPIKA
41	20641E0075	VALLURI BABU
42	20641E0076	BURRA PRADEEP KUMAR
43	20641E0077	CHALLA SRINIVAS
44	20641E0078	DASI PREETHI
45	20641E0079	DONAKONDA KARTHIK PAUL
46	20641E0080	GOPAVARAM SAKETA REDDY





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47	20641E0090	KONKALA VINAY
48	20641E0091	VELIGETI NIKHIL NARAYAN
49	20641E0092	GAJARLA NIHARIKA
50	20641E0093	BORIGAM SREEKAR
51	20641E0094	K.NAVEEN
52	20641E0099	NEHA FIRDOUS
53	20641E0001	ANUGANTIPRAVEEN
54	20641E0002	BARLA SANDHYA
55	20641E0003	BHUKYA RAJ KUMAR
56	20641E0004	CHEEKATI SINDHUJA
57	20641E0005	CHINNAPELLI MADHU
58	20641E0006	DEDAVATH SIDDU
59	20641E0007	DUGGI NAVEEN
60	21641E0001	ADDANKI RAVALI
61	21641E0002	ADDE SURENDER
62	21641E0003	ALLENKI VINI
63	21641E0008	ASIYA
64	21641E0009	AZMEERA RAJINI
65	21641E0010	BHUKYA RAKESH
66	21641E0011	BHUKYA RAMNAIK
67	21641E0012	BOJJAM MANISHA
68	21641E0013	CHAPARTHY AKHILA
69	21641E0014	CHAPPULA MAHESH
70	21641E0015	CHELUVOJU AKHIL
71	21641E0016	CHERAKU VISHAL
72	21641E0017	CHERUKU RAKESH
73	21641E0018	CHILUKAMARI ANIRUDH
74	21641E0019	DOMMATI DEVENDRA
75	21641E0020	EDLA JAGAN
76	21641E0021	EEDA UDAYARAJU
77	21641E0022	ENUGALA RAJENDER
78	21641E0023	ERRA AKHIL
79	21641E0024	GANNARAPU PAVAN KUMAR
80	21641E0028	GOTTEMUKKULA SRILEKHA
81	21641E0029	GUGULOTH PRABHU TEJA
82	21641E0030	GUGULOTH SRIDHAR
83	21641E0031	GUGULOTH SRINIVAS
84	21641E0032	GUGULOTHU PRIYANAKA
85	21641E0033	JAKKI VINAY
86	21641E0034	JANNU NIKIL
87	21641E0035	JANNU SANDEEP
88	21641E0036	JATOTH ANITHA
89	21641E0037	JATOTHU SRIKANTHU
90	21641E0038	JOGULA THARUN
91	21641E0039	KAIRY RAJESH
92	21641E0040	KALAHASTHRI GAYATHRI
93	21641E0041	KALAKOTLA SUJITH
94	21641E0042	KALUVALA SRAVAN
95	21641E0043	RASA PRASHANTH KUMAR



To  
HoD,  
MBA Department,  
Vaagdevi College of Engineering,  
Bollikunta, Warangal.

**Subject:** Requesting- Permission - Conduct "Understanding Basics of the Stock Market"  
Workshop for MBA Students – Reg.

Respected Sir,

We are seeking permission to conduct a workshop titled "Understanding Basics of the Stock Market" for our MBA students from 9-03-2023 to 10-3-2023. This workshop will cover key concepts such as market structures, trading strategies, financial analysis, and risk management, providing students with essential knowledge for real-world applications.

Given the importance of financial literacy today, I believe this workshop will greatly enhance our students' understanding and skills in finance. I kindly request your approval to organize this workshop.

Thank you for your consideration.

Sincerely,  
Dr. Kesireddy Venu & Dr. G. Sarija,  
Assistant Professors,  
Vaagdevi College of Engineering,  
Bollikunta, Warangal.





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Bollikunta, Warangal - 506 005 (Telangana State)

Vaagdevi College of Engineering  
MBA Department  
02-03-2023

**Subject:** Approval for Conducting understanding Basics of the Stock Market Workshop for MBA Students.

Dear Organizers,

I am pleased to approve your request to conduct the "Understanding the Basics of the Stock Market" workshop for our MBA students. This initiative aligns with our goal of enhancing students' financial literacy and practical skills.

Please proceed with the necessary arrangements, and let us know if any additional support is needed. Thank you for your dedication to enhancing our students' learning experience.

Best regards,  
Dr. Y. Bhaskar Rao  
MBA Department  
Vaagdevi College of Engineering

Permitted  
AM





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Accredited by National Board of Accreditation,  
Approved by AICTE & Permanent Affiliation to JNTU Hyderabad  
Certified by ISO 9001:2008

#### About Workshop

The stock market as a whole is an exchange mechanism that helps investors buy and sell shares in publicly traded companies. Though you can visit the New York Stock Exchange (NYSE) and offices of the NASDAQ, these are just components in a broader marketplace. Trades are conducted mostly through electronic means between participants who are remote from each other. The mechanism is an excellent means for businesses to raise capital from investors. Additionally, analysts closely examine its traded prices for signals of economic strength or weakness.

#### Key Takeaways

The stock market is defined as the collective trading network involving company shares and their derivatives.

The stock market, is a central part of modern economies since it's where companies raise vast sums of money to accelerate successful startups, expand existing businesses, or consolidate operations and pay off debt.

Companies listed on stock exchanges must be public, meaning their shares are open not just to a select few but traded on stock exchanges and elsewhere. Public companies are subject to many reporting and transparency regulations.

Stocks are sold to institutional investors and high-net-worth individuals, but also those with far more modest means looking for income from a share of the profits, to sell the stock later at a higher price, or simply to have a say in how a company is run.



Two Day Workshop  
on

## Understanding Basics of the Stock market

09th to 10th March, 2023

Organized by  
Department of Business Management

Coordinator  
Dr. Kesi Reddy Venu & Dr. G. Saroja

Hod  
Dr. Y. Bhaskar Rao





An outline of the "Two day workshop on Understanding Basics of the Stock market" is provided in the schedule. Depending on participant engagement and individual interests, each session can be modified.

**Duration:** 2 Days (9-03-2023 to 10-3-2023)

**Target Audience:** MBA Students

**Location:** Vaagdevi College of Engineering

**Facilitator:** Dr. Katakam Phanindra Kumar

### **Day 1: Introduction to the Stock Market**

**9:00 AM - 9:30 AM:** Registration and Welcome

- Icebreaker activity
- Overview of the workshop objectives

**9:30 AM - 10:30 AM:** Understanding Financial Markets

- What is a stock market?
- Types of financial markets (stocks, bonds, commodities)
- Importance of the stock market in the economy

**10:30 AM - 10:45 AM:** Break

**10:45 AM - 12:00 PM:** Basics of Stocks

- What are stocks?
- Types of stocks (common vs. preferred)
- How stocks are traded

**12:00 PM - 1:00 PM:** Lunch Break

**1:00 PM - 2:15 PM:** Market Participants

- Who are the players? (retail investors, institutional investors, brokers)
- Role of exchanges and market makers

**2:15 PM - 2:30 PM:** Break

**2:30 PM - 3:45 PM:** Fundamental Analysis

- What is fundamental analysis?
- Key financial statements (income statement, balance sheet, cash flow statement)
- Key financial ratios (P/E ratio, EPS, etc.)

**3:45 PM - 4:00 PM:** Q&A Session

**4:00 PM - 4:30 PM:** Recap of Day 1

- Key takeaways
- Introduction to Day 2 topics





**Day 2: Trading and Investment Strategies**

**9:00 AM - 10:15 AM: Technical Analysis Basics**

- What is technical analysis?
- Key concepts (trends, support and resistance)
- Introduction to chart patterns and indicators

**10:15 AM - 10:30 AM: Break**

**10:30 AM - 11:30 AM: Investment Strategies**

- Long-term vs. short-term investing
- Value investing, growth investing, and dividend investing
- Risk management and diversification

**11:30 AM - 12:30 PM: The Role of Economics**

- How economic indicators affect the stock market
- Understanding market cycles and their impact on investing

**12:30 PM - 1:30 PM: Lunch Break**

**1:30 PM - 2:45 PM: Using Technology in Trading**

- Overview of trading platforms and tools
- Introduction to online brokerage accounts
- Basics of algorithmic trading

**2:45 PM - 3:00 PM: Break**

**3:00 PM - 4:00 PM: Creating a Personal Investment Plan**

- Setting financial goals
- Risk tolerance assessment
- Building a diversified portfolio

**4:00 PM - 4:30 PM: Final Q&A and Wrap-Up**

- Discussion of resources for continued learning

Feedback and closing remarks





**Workshop Report: Understanding Basics of the Stock Market**

**Objective of the workshop:**

The "Basics of the Stock Market" workshop aimed to provide participants with a solid foundation in stock market concepts, trading strategies, and investment principles over two engaging days.

**Organizers of the Workshop:** Dr. Kesi Reddy Venu & Dr. G. Saroja

**Day 1: Foundations of the Stock Market**

**Session Highlights:**

1. **Understanding Financial Markets**
  - **Key Takeaways:** Participants learned about the structure and importance of financial markets, including the stock market's role in the economy.
2. **Basics of Stocks**
  - **Key Concepts:** Differentiation between common and preferred stocks, and how stock trading functions.
3. **Market Participants**
  - **Insights:** Overview of different market players, including retail and institutional investors, and the role of brokers and exchanges.
4. **Fundamental Analysis**
  - **Skills Developed:** Participants gained skills in evaluating financial statements and key ratios to assess company performance.
5. **Recap and Q&A:**
  - Participants reflected on the day's learning, engaging in discussions and asking questions.

**Day 2: Trading Strategies and Investment Planning**

**Session Highlights:**

1. **Technical Analysis Basics**
  - **Learning Focus:** Introduction to chart patterns, trends, and key indicators for technical trading.
2. **Investment Strategies**
  - **Topics Covered:** Examination of various strategies, including long-term vs. short-term investing, and principles of diversification and risk management.
3. **The Role of Economics**
  - **Understanding Impact:** Discussion on how economic indicators influence the stock market and investment decisions.
4. **Using Technology in Trading**
  - **Practical Tools:** An overview of trading platforms and tools that facilitate online trading and algorithmic strategies.





5. **Creating a Personal Investment Plan**

- **Actionable Steps:** Guidance on setting financial goals, assessing risk tolerance, and building a diversified portfolio.

6. **Closing Q&A and Feedback:**

- Final session for participants to ask questions, share insights, and provide feedback on the workshop experience.

**Outcomes and Feedback:**

- **Knowledge Gained:** Participants reported an increased understanding of stock market fundamentals and investment strategies.
- **Engagement:** High levels of participation and interaction during sessions.
- **Satisfaction:** Positive feedback indicated that the workshop met its objectives and participants found the content relevant and applicable.

**Recommendations for Future Workshops:**

- Consider offering advanced topics such as options trading or behavioral finance.
- Include hands-on activities or simulations to enhance practical learning.

**Conclusion:**

The "Basics of the Stock Market" workshop successfully equipped participants with essential knowledge and skills. The facilitators received commendations for their effective teaching methods and engaging presentations.







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## **Brief Profile of the Speaker:**

*Mr. Phanindra Kumar Katakam is an Assistant Professor of Commerce & Business Management, School of Management, University Arts & Science College, Kakatiya University, Warangal. He has done MBA, PGDMM, M.Com, Qualified APSET (Management), TSSET (Commerce) and presently pursuing Ph.D. in the Department of Commerce & Business Management, Kakatiya University. He has 11 years of teaching experience, published 41 research articles in reputed ISSN Journals/ISBN Books. He has participated and presented 44 research papers in National & International Seminars/Conferences, attended 8 Workshop's, 8 FDP's, 4 Symposiums, 2 Short Term Training Programs and also participated in National Level Essay Competition for Higher Education Teachers, published a book on "Information Technology" a text book for Degree I Year Students. He worked as an Organizing Member for 7 National Seminars and worked as a Faculty Coordinator for Management Students Meet "MEDHA - 2013". He is also a Life Member of Indian Commerce Association & Telangana Commerce Association. He is presently holding responsibilities as a Member in IQAC Cell & Examination Branch of the college.*





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List of students participated in the two day workshop on Understanding the Basics of Stock Market from 9-03-2023 to 10-3-2023.

S.no	Roll Number	Name of the participant
1	21641E0001	ADDANKI RAVALI
2	21641E0002	ADDE SURENDER
3	21641E0003	ALLENKI VINI
4	21641E0008	ASIYA
5	21641E0009	AZMEERA RAJINI
6	21641E0010	BHUKYA RAKESH
7	21641E0011	BHUKYA RAMNAIK
8	21641E0012	BOJJAM MANISHA
9	21641E0013	CHAPARTHY AKHILA
10	21641E0014	CHAPPULA MAHESH
11	21641E0015	CHELUVOJU AKHIL
12	21641E0016	CHERAKU VISHAL
13	21641E0017	CHERUKU RAKESH
14	21641E0018	CHILUKAMARI ANIRUDH
15	21641E0019	DOMMATI DEVENDRA
16	21641E0020	EDLA JAGAN
17	21641E0021	EEDA UDAYARAJU
18	21641E0022	ENUGALA RAJENDER
19	21641E0023	ERRA AKHIL
20	21641E0024	GANNARAPU PAVAN KUMAR
21	21641E0028	GOTTEMUKKULA SRILEKHA
22	21641E0029	GUGULOTH PRABHU TEJA
23	21641E0030	GUGULOTH SRIDHAR
24	21641E0031	GUGULOTH SRINIVAS
25	21641E0032	GUGULOTHU PRIYANAKA
26	21641E0033	JAKKI VINAY
27	21641E0034	JANNU NIKIL
28	21641E0035	JANNU SANDEEP
29	21641E0036	JATOTH ANITHA
30	21641E0037	JATOTHU SRIKANTHU
31	21641E0038	JOGULA THARUN
32	21641E0039	KAIRY RAJESH
33	21641E0040	KALAHASTHRI GAYATHRI
34	21641E0041	KALAKOTLA SUJITH
35	21641E0042	KALUVALA SRAVAN
36	21641E0043	RASA PRASHANTH KUMAR
37	21641E0048	NAINI SHIVAKUMAR
38	21641E0049	ACHA SAIDEEP
39	21641E0050	KUMMARI RAVI KIRAN





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40	21641E0053	THOTAKURI SRIKANTH
41	21641E0054	VODAPALLI SRI ROHITH
42	21641E0055	SARAMPALLY RUSHIKESHREDDY
43	21641E0056	CHILUVERU SAIKRISHNA
44	21641E0057	POOJARI NAVEENKUMAR
45	21641E0058	EDULLA UDAYESHWAR
46	21641E0061	KAMATAM VAMSHI
47	21641E0062	KANDAGATLA HEMANTH
48	21641E0063	KANDI SHIVA TEJA
49	21641E0064	KOLISHETTI OM PRAKASH
50	21641E0065	KOMURAVELLI ANUSHA
51	21641E0072	MACHA MAHESH
52	21641E0073	MADDYSETTI VYSHNAVI
53	21641E0074	MADOORI PRASHANTH
54	21641E0075	MALLEPAKA VARUN TEJA
55	21641E0076	MAMIDI CHIRANJEEVI
56	21641E0077	MANCHALA APARNA
57	21641E0078	MANCHALA RAKESH
58	21641E0079	MARUPATLA MADHURI
59	21641E0080	MASURAM DIVYA
60	22641E0005	AKULA ABHISHEK
61	22641E0009	ANGADI MAMATHA
62	22641E0010	AREPELLY RAKESH
63	22641E0011	ARMURI SURESH
64	22641E0013	BALLA ABHINAYA
65	22641E0018	BARIGELA PRADEEPKUMAR
66	22641E0023	BOLLI SAI
67	22641E0024	BUSSARI RASHMI
68	22641E0026	CHELLOJU KAVYASRI
69	22641E0028	DANGI PRIYANKA
70	22641E0056	CHARLAPALLI VINEETH
71	22641E0057	CHIGURUMAMIDI VINAY KUMAR
72	22641E0059	ENUGALA PREETHAM
73	22641E0060	RAJARAPU RAKESH
74	22641E0061	GATTIKOPPULA VARSHA
75	22641E0066	GUDIKANDULA RISHITHA
76	22641E0067	GUGULOTH DEVI
77	22641E0069	GUGULOTHU MAIBY
78	22641E0074	JANNU VAISHNAVI
79	22641E0077	KANCHANAPALLY RAJITHA
80	22641E00F0	SRIPATHI SNEHA
81	22641E00F4	VELPULA ANUSHA
82	22641E00F6	NAGUNOORI SAISINDHU
83	22641E00G3	SURYAPALLI SAI TEJA
84	22641E00G6	VADLURI PRANEETH
85	22641E0034	ENUGALA ANJALI
86	22641E0037	GADE SWAPNA





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87	22641E0039	GANDI RAGASRI
88	22641E0055	BOORGULA SUMAN
89	22641E0062	GEESA MAHESH
90	22641E0063	GORKATE BHARATH
91	22641E0068	GUGULOTHU LOHITHA BAI
92	22641E0070	GUNDETI NIREEKSHANA
93	22641E0071	ITHA PALSON RAJ
94	22641E0073	JAKKULA RANJITH
95	22641E0078	KANDAGATLA SAINADH VIKRAMKUMAR
96	22641E0086	KOREPU SNEHA
97	22641E0091	LENKALA RAMPRASAD
98	22641E0097	MIYAPURAM SURYAPRAKASH
99	22641E0098	NAMPELLY RAKESH
100	22641E0099	MODEM SUSRITHA
101	22641E00A3	MOHAMMED IMRAN
102	22641E00A4	G.ANIL KUMAR
103	22641E00A8	GUGULOTHU HANUMANTHU
104	22641E00C2	MORE VINEETH
105	22641E00C3	MOTHUKOORI YESHWANTH
106	22641E00C5	MUNJALA KRANTHI KUMAR
107	22641E00D1	PASTHAM SATHISH
108	22641E00E2	ROUTHU RAJU
109	22641E00F2	T NARESH
110	22641E00F3	THURPATI RAKESH
111	22641E0006	ALLE RAJU
112	22641E0012	BADAVATH ANILKUMAR
113	22641E0014	BALLE RAVIKUMAR
114	22641E0031	DONGRE VISHNU GOPAL
115	22641E0034	ENUGALA ANJALI
116	22641E0037	GADE SWAPNA
117	22641E0039	GANDI RAGASRI
118	22641E0055	BOORGULA SUMAN
119	22641E0062	GEESA MAHESH
120	22641E0063	GORKATE BHARATH
121	22641E0068	GUGULOTHU LOHITHA BAI
122	22641E0070	GUNDETI NIREEKSHANA
123	22641E0071	ITHA PALSON RAJ
124	22641E0073	JAKKULA RANJITH
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127	22641E0091	LENKALA RAMPRASAD
128	22641E0097	MIYAPURAM SURYAPRAKASH
129	22641E0098	NAMPELLY RAKESH
130	22641E0099	MODEM SUSRITHA
131	22641E00A3	MOHAMMED IMRAN
132	22641E00A4	G.ANIL KUMAR
133	22641E00A8	GUGULOTHU HANUMANTHU





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134	22641E00C2	MORE VINEETH
135	22641E00C3	MOTHUKOORI YESHWANTH
136	22641E00C5	MUNJALA KRANTHI KUMAR
137	22641E00D1	PASTHAM SATHISH
138	22641E00E2	ROUTHU RAJU
139	22641E00F2	T NARESH
140	22641E00F3	THURPATI RAKESH
141	22641E00F9	PENDEM INDU
142	22641E00G1	SOMA HARSHAVARDHAN
143	22641E00G2	SRIRAMOJU SAIKRISHNA
144	22641E00G4	UPPRAPALLI SAI RAM
145	22641E00G5	VADLAKONDA LOKESH
146	22641E00H2	VOOTLA RAMYSRI
147	22641E00C4	MUNIGE AKHILA
148	22641E00C6	MUPPU ANUSHA
149	22641E00D0	PANJALA RAKESH
150	22641E00D2	PASUNOORI KEERTHANA



**Two Weeks ONLINE FACULTY DEVELOPMENT PROGRAMME on  
Artificial Intelligence and its Applications**

**(18th July –29th July 2022)**

**Organized by**

**Electronics & ICT Academy, NIT Warangal**

**In association with**

**Vaagdevi College of Engineering, Warangal**

**(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)**



**Co-ordinator**

Dr. L. Balakrishna

Dept. of CSE,

Vaagdevi College Of Engineering, Warangal

Email [balakrishna\\_e@vaagdevi.edu.in](mailto:balakrishna_e@vaagdevi.edu.in)

Mobile: 91- 8897328332





# Two Weeks ONLINE FACULTY DEVELOPMENT PROGRAMME on

## Artificial Intelligence and its Applications

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### Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy's role is to offer Faculty Development Programmes (FDPs) in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum Development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

### About the FDP:

This Online FDP is devoted to address research advancements and the need to enhance the knowledge about the latest development pertaining to Artificial Intelligence (AI) for Engineering Applications. The main objective of this program is to introduce AI Technology a flow based paradigm for developing AI based Applications. It aims to encourage various zonal professionals/academicians towards research and for their academic quality and improvement. This course will offer a unique opportunity to all the participants in the relevant topics of AI aspects and its applications through theoretical sessions along with simulation environment. The applications of AI are not limited to particular fields, but span a wide range of applications such as energy systems, homes, industries, cities, logistics, health, agriculture and so on.

### Major Course Contents:

- Introduction to AI/ML and its applications in real world
- AI for Healthcare
- Case Studies on AI Applications
- Working with data pre-processing and data visualization using Python
- Artificial Intelligence in Bioinformatics
- ML based Regression, Classification and its applications
- AI for Imaging and Computer Vision Applications

### Faculty conducting this programme:

The programme will be conducted in online mode by Vaagdevi College of Engineering and NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver lectures as part of the course.

### How to apply:

Participants are required to fill in the online registration form given in the <https://forms.gle/8mLSx68vwzuS5z2c9>

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (hundred).The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD/online payment will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

### Registration Fee Particulars:

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

### Important Dates

Last date (Application & DD)	17th July 2022
Selection List by E- mail	17th July 2022
Duration	18th July - 29th July 2022

Participants need to pay the Registration Fee online using the following details.

Online Transfer Details	
Account Name	Electronics & ICT Academy NITW
Account No	62423775910
IFSC	SBIN0020149
Bank and Branch	SBI, NIT Warangal

### Course Evaluation:

Continuous assessments at regular intervals. Assessment includes MCQ's, Fill in the Blanks, True/False and/or scenario based questions.

### About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech. degrees in various branches of engineering, M.Tech. and Ph.D. programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

### About Vaagdevi College of Engineering and CSE Dept

Vaagdevi College of Engineering is an AICTE approved and UGC autonomous college. Established in 1998 in the suburbs of Warangal city had stride forward significantly over in the years. College has received significant funding opportunities from AICTE to develop laboratories and research facilities on campus.

The CSE department was started with 40 seats in 1998-99 and increased to 240 in the academic year 2012-2013. The department strives for global excellence in teaching and focus on research and technology development. The department of Computer Science and Engineering has a vibrant body of faculty with 66 in number. Department has several MOU's with industry and academia. Continuous interactions with the industry that helps our students to brace themselves to absorb into the industry and higher studies abroad.

### Co-ordinators:

Dr. E. Balakrishna Dept. of CSE, Vaagdevi College Of Engineering, Warangal Email: balakrishna_e@vaagdevi.edu.in Mobile: +91- 8897328332	Dr. Ilaiah Kavati Dept. of Computer Science and & Engineering NIT, Warangal Email: <a href="mailto:ilaiahkavati@nitw.ac.in">ilaiahkavati@nitw.ac.in</a> Mobile: +91-9848916272
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