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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

25.01.2025

Ref. No: PSNCET/EEE/10/VAC/2024-2025/005

CIRCULAR

Sub: Value Added Courses offered for the academic year 2024-2025.

With reference to the above subject, this is to inform that the Department of Electrical and Electronics and Engineering, PSN College of Engineering and Technology is conducting Value Added Course on a topic listed below for the students of III year/ VI semester -EEE.

Course title	Duration
VAC005-Data Analytics and Visualization using R Programming	03.02.2025-07.02.2025

The students can contact the respective course coordinator to get the registration form. The students should complete the registration process a day before the event start.

Head of the Department/EEE

Head of the Department
Dept. of EEE
PSN College of Engg & Tech
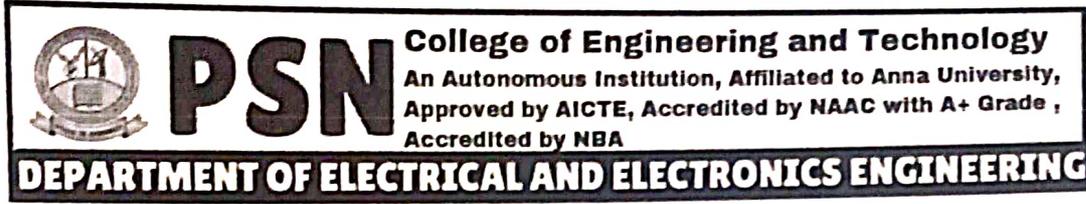Tirunelveli - 627 152

Copy to:

1. The Principal, PSNCET
2. IQAC, PSNCET
3. Department File

10.2.25

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

25/01/2025

Ref. No: PSNCET/EEE/10/VAC/2024-2025/005

CIRCULAR

Sub: Course coordinator for Value Added Courses.

With reference to the Circular No. PSNCET/EEE/10/VAC/2024-2025/005, the following faculty are nominated as the Course Coordinators for the Value Added Courses conducted by the Department of Electrical and Electronics and Engineering during the academic year 2024-25.

Course title	Name of the course coordinator
VAC002- Data Analytics and Visualization using R Programming	Mrs.S.Indhumathi, AP/EEE

The course coordinators are requested to conduct the course as per the schedule and submit the following documents to the Head of the Department after the completion of the course.

1. List of students registered
2. Students' attendance
3. Feedback analysis
4. Course completion report with course outcomes.

Head of the Department/EEE

Head of the Department.
Dept. of EEE
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FIVE DAYS VALUE ADDED COURSE

ON

"Data Analytics and Visualization using R Programming"

(03/02/2025 to 07/02/2025)

Organized by the Department of Electrical and Electronics and Engineering

PSN College of Engineering and Technology

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, Recognized by UGC under section 2(f), An ISO 9001:2015 Certified Institution, Accredited by NAAC A+

Melathediyoor, Tirunelveli - 627 152
www.psncet.ac.in

ABOUT THE INSTITUTE

College was established by the PSN Educational and Charitable Trust in the year 2001 under the leadership of our illustrious Chairman Dr.P.Suyambu, Ph.D, a multi-tasked personality and an admirable academic brilliance. The college is located at Melathediyoor, 12 km away from Tirunelveli unfolding its grandeur over 250 acres of land.

The college offers 9 UG, 7 PG and 5 Ph.D. programmes. On campus academic and Research activities drive both faculty and students towards their goals with the end results of research publications, funded projects, academic achievements and placement offers.

Vision

To emerge as a pioneer institute inculcating engineering education, skills, research, values and ethics.

Mission

- To achieve greater heights of excellence in technical knowledge and skill development through innovative teaching and learning practices.
- To develop the state of art infrastructure to meet the demands of technological revolution.
- To improve and foster research in all dimensions for betterment of society.

- To develop individual competencies to enhance innovation, employability and entrepreneurship among students.
- To instill higher standards of discipline among students, inculcating ethical and moral values for societal harmony and peace.

ABOUT EEE TECHNICAL FORUM

Department of EEE has started technical forum in the name **SHEEN** and effectively organizing technical events like guest lecturers, workshops and faculty development programs to the faculty members. Since the academic year 2008 -2009, it has joined hands to increase the number of events and the quality in the events. The forum executive body actively plans and executes the programs. This time it brings up a value added course for the benefit of the students and staff.

Department Vision

To emerge as pre-eminence program for quality Electrical and Electronics Engineering Graduates

Department Mission

- To enable quality infrastructure for advanced knowledge and skills towards learning under congenial environment for global placement, higher studies, research and entrepreneurship.
- To stimulate the process of critical thinking and problem solving with

REGISTRATION FORM

Personal Details:

Name :

Department :

College Name :

College Address :

Branch :

(Student must append their year of study)

Communication Details:

Mobile :

E-Mail :

IMPORTANT DATES

The last date for receipt of the registration form is 30-01-2025

CERTIFICATE

A certificate of participation will be issued.

Chief patron:

Dr. P. Suyambu, Chairman.

Patron 1:

Er. P.S. Jagannath, Vice Chairman.

Patron 2:

Er. P.S. Jayaram, Vice Chairman

Co-Patron(s)

Dr.V.Manikandan, Principal.

Executive Director

Dr.P.Selvakumar, Prof/ Mechanical Engineering.

Coordinators

Ms.A.Shiny Pradeepa, HoD/EEE

Contact Details

Feel free to ask your queries either by Email: hodeee@psncet.ac.in

Contact: - 88389 61750

special focus on research capabilities.

- To enhance professional ethics, values and standards to meet the demands of society

OBJECTIVES OF THE VALUE-ADDED COURSE

This five-day value-added course aims to data analysis and statistical computing using R Language. It's also an effective tool for machine learning algorithms. R is especially relevant for data science professionals due to its data cleaning, importing, and visualization capabilities.

RESOURCE PERSONS:

Mrs.S.Indhumathi, AP/EEE

PARTICIPANTS

Students EEE Departments.

REGISTRATION

The participants are requested to confirm their registration with the coordinator. Spot registration facility is also available. Registration is on a first-come–first-serve basis and registrations are limited.

REGISTRATION FEE

The registration fee is Rupees 1000 for Students.
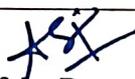
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

03/02/2025

List of students registered for Value Added Course onVAC 005"Data Analytics and Visualization using R Programming"

S.No	Roll.No	Name	Year/Semester
1	95222204001	Abinesh R	III/VI
2	95222204002	Anto Sharon A	III/VI
3	95222204003	ChandruIyappan M	III/VI
4	95222204004	Chinnamani M	III/VI
5	95222204005	Elangovan T	III/VI
6	95222204006	Gopinath T	III/VI
7	95222204007	Gowtham B	III/VI
8	95222204011	Murugan V	III/VI
9	95222204012	Nathan K	III/VI
10	95222204013	Nijanthan K	III/VI
11	95222204014	Palanivel M	III/VI
12	95222204015	Parthiban S	III/VI
13	95222204018	Rakul T	III/VI
14	95222204019	Sanjith A	III/VI
15	95222204020	Sivakumar R	III/VI
16	95222204021	Sridharan K	III/VI
17	95222204023	Ulaganathan C S	III/VI
18	95222204301	Devadersh R	III/VI
19	95222204302	Dyson T	III/VI
20	95222204303	Gajendran M	III/VI
21	95222204304	Ganesh A	III/VI
22	95222204305	Ram kumar B	III/VI
23	95222204306	Thomas Antony Dafrin X	III/VI
24	95222204307	Vinish S	III/VI

Head of the Department/EEE

Head of the Department
Dept of EEE
PSN College of Engg & Tec
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

08/02/2025

Value Added Course on Data Analytics and Visualization using R Programming

GPS Map Camera

Tirunelveli, Tamil Nadu, India
Psn College Rd, Tamil Nadu 627451, India, Tirunelveli,
Tamil Nadu 627451, India
Lat 8.640455° Long 77.640559°
03/02/2025 11:35 AM GMT +05:30

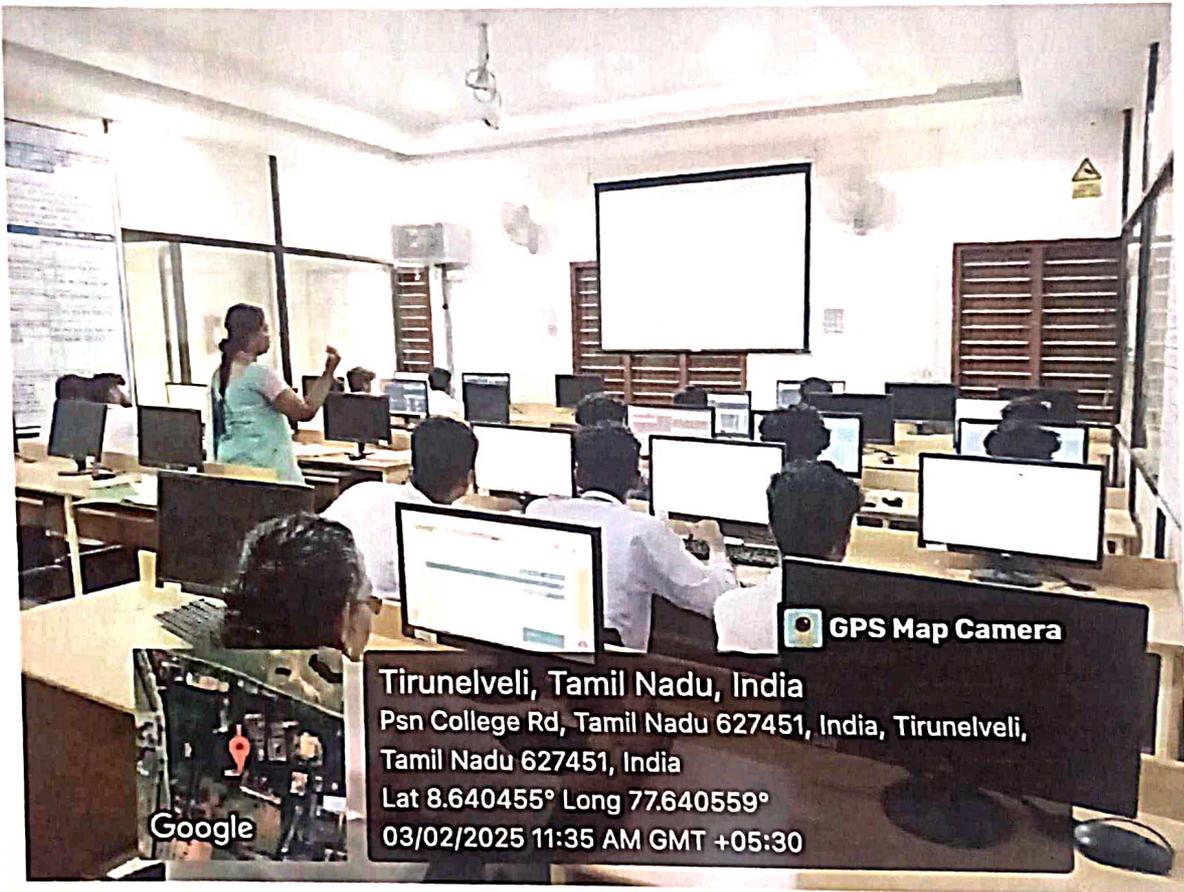Head of the Department/EEE

Head of the Department
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

03/02/2025-07/02/2025

Attendance details for Value Added Course on Data Analytics and Visualization using R Programming

S.No	Reg. No	Student Name	03/02/2025						04/02/2025						05/02/2025						06/02/2025						07/02/2025						Attendance (%)
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
1	95222204001	Abinesh R	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	√	√	√	√	√	97
2	95222204002	Anto Sharon A	A	A	A	A	A	A	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	80
3	95222204003	Chandrulyappan M	A	A	A	A	A	A	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	80
4	95222204004	Chinnamani M	A	A	A	A	A	A	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	√	80
5	95222204005	Elangovan T	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	100
6	95222204006	Gopinath T	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	100
7	95222204007	Gowtham B	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	A	√	√	√	√	√	√	√	√	√	√	√	93
8	95222204011	Murugan V	√	√	√	√	√	√	A	A	A	A	A	A	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	80
9	95222204012	Nathan K	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	100
10	95222204013	Nijanthan K	√	√	√	√	√	√	√	√	√	A	A	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	97
11	95222204014	Palanivel M	√	√	√	√	√	√	√	√	√	A	A	√	√	√	√	√	√	√	√	√	A	√	√	√	√	√	√	√	√	√	83
12	95222204015	Parthiban S	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	100
13	95222204018	Rakul T	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	√	√	√	√	√	A	√	√	√	√	√	97
14	95222204019	Sanjith A	√	√	√	A	A	√	√	√	√	√	A	√	√	√	√	√	√	√	A	√	√	√	√	√	√	√	√	√	√	√	87
15	95222204020	Sivakumar R	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	√	√	√	√	√	97
16	95222204021	Sridharan K	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	√	√	√	√	√	97
17	95222204023	Ulaganathan C S	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	A	√	√	√	√	√	97

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No.	Reg. No.	Name		Marks
18	95222204301	Devadersh R	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	100
19	95222204302	Dyson T	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	800
20	95222204303	Gajendran M	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	100
21	95222204304	Ganesh A	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	100
22	95222204305	Ram kumar B	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	100
23	95222204306	Thomas Antony Dafrin X	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	80
24	95222204307	Vinish S	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	100

Head of the Department/EEE

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Report of Value-Added Course Conducted

Title of the Course	VAC 005Data Analytics and Visualization using R Programming
Dates & Duration	03/02/2025 to 07/02/2025&30 Hours
Name(s) of the Resource Persons	Mrs.S.Indhumathi, AP/EEE
Name of the Course Coordinator	Ms.A.Shiny Pradeepa, Hod/EEE
No. of Participants	24

Course Outcomes

Upon the completion of this course, the students will able to

- Know the electronic design and create schematics by Proteus.
- Develop an electronic print for manufacturing printed circuit boards.

Remarks of the Course Coordinator about the Course

Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology organized the value-added course on "Data Analytics and Visualization using R Programming" from 03/02/2025 to 07/02/2025. This value-added course focused on R Language. 24 students registered and participated in this value-added course. Hands-on training is given to the participants on R software. The course was well accepted by the students which is noted from the feedback given by them. The students are encouraged to utilize the R software for their Future.

Date:08.02.2025

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
3	-	2	2	2	2	2	3	2	2	-	2	-	2

Signature of the Course Coordinator

Signature of the Head of the Department

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

08/02/2025

Mrs.S.Indhumathi, AP/EEE,

She studied B.E.- EEE in 2018 in Einstein College of Engineering and M.E. – Power Electronics and Drives in Einstein College of Engineering in 2020. She is doing Ph.D. – Electric vehicle Power converter in Anna University – July 2024. Now she is working as Assistant Professor in Electrical and Electronics Engineering in PSN College of Engineering and Technology from 2020 to till now. From 2023 she is also Incubation Event manager in PSNTEC Business Incubator Federation.

Head of the Department/EEE

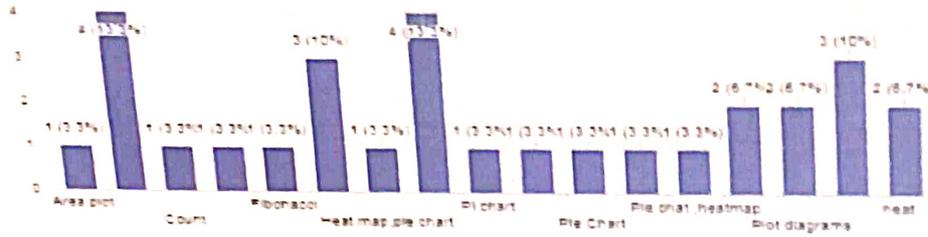Head of the Department
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

08.02.2025

Analysis for the feedback form – Value Added Course

Course Code : VAC 005

Course Name : Data Analytics and Visualization using R Programming

	Very Satisfied	Satisfied	Neutral	Dis Satified	Very Dis Satisfied
Overall how satisfied were you with this VAC	20	4	0	0	0
How informative did you find our VAC	22	1	1	0	0
How clear were the ideas and concepts we presented	23	1	0	0	0
Were there any technical issues that prevented you from seeing or hearing the VAC	22	1	1	0	0
Was the subject matter of this VAC too simple, too involved, or at the right level	22	1	1	0	0

Overall how satisfied were you with this VAC
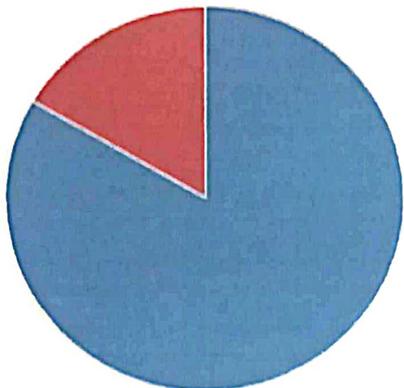
■ Very Satisfied　■ Satisfied　■ Neutral　■ Dis Satified　■ Very Dis Satisfied

How informative did you find our VAC
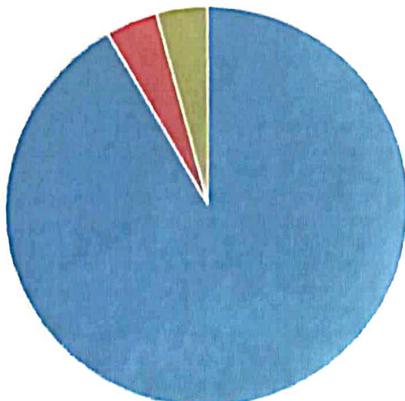
■ Very Satisfied　■ Satisfied　■ Neutral　■ Dis Satified　■ Very Dis Satisfied

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How clear were the ideas and concepts we presented
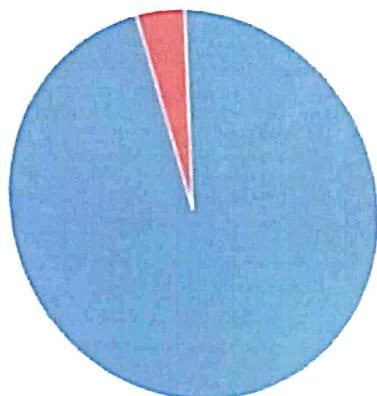
• Very Satisfied   • Satisfied   • Neutral   • Dis Satisfied   • Very Dis Satisfied

Were there any technical issues that prevented you from seeing or hearing the VAC
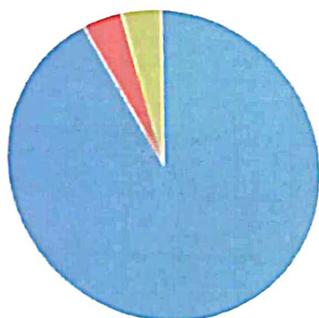
• Very Satisfied   • Satisfied   • Neutral   • Dis Satisfied   • Very Dis Satisfied

Was the subject matter of this VAC too simple, too involved, or at the right level
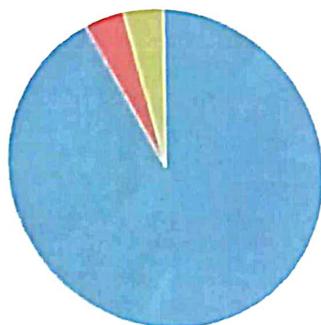
• Very Satisfied   • Satisfied   • Neutral   • Dis Satisfied   • Very Dis Satisfied

6. Which topic has attracted you a lot?

30 responses

7. Do you have any other comments or feedback?

30 responses

Nice

No

Good

Nil

Head of the Department
Dept. of EEE
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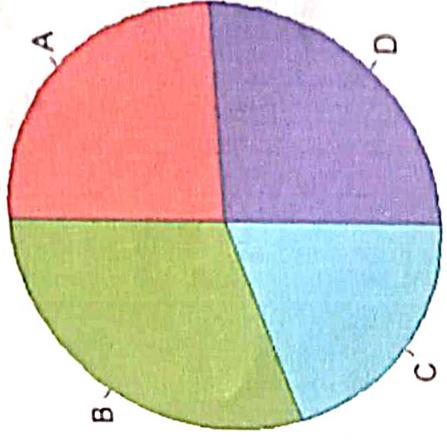TIRUNELVELI DIST. - 627 152.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Evaluation procedure for the Value-Added Courses

Value added course on Data Analytics and Visualization using R Programming (VAC 005)03.02.2025 to 07.02.2025

The value-added training courses shall carry 50 marks and shall be evaluated through assessment only. The assessments will be conducted at the end of the course for the purpose of awarding certificates. The certificates will be awarded to the students those who obtained 60% and above marks in the assessment. Minimum of 80% attendance is essential for the courses. The duration of assessment is one hour. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Department will monitor the evaluation process.

Head of the Department

Head of the Department,
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Value Added Course on "Data Analytics and Visualization using R Programming"
Assessment Test

07.02.2025

Mark: 10*5=50

BL – Bloom's Level (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

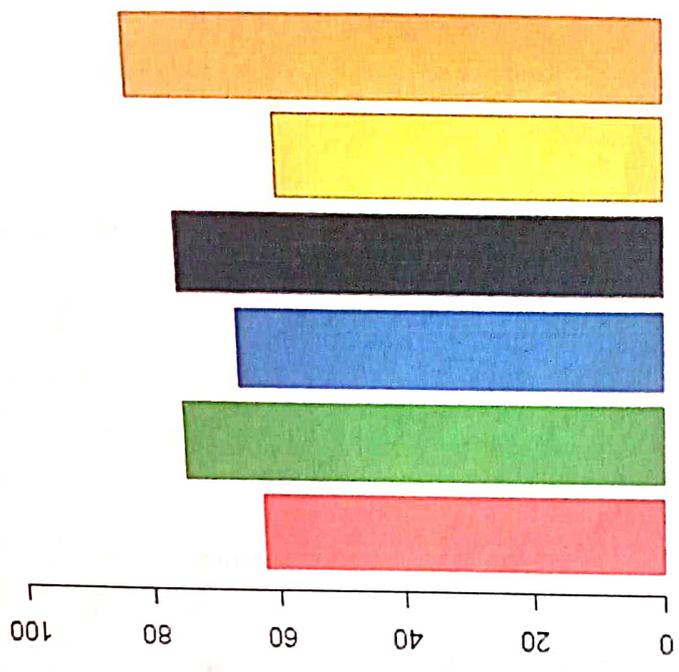| SI.NO.	Part – A	Mark	BL
1.	Write a R program to plot the daily temperature of a city for 30 days. Use a line graph to show the variation. Label the axes properly and add a legend if needed..	10	6
2.	Create a R program that plots the monthly sales of a company for one year using a bar chart. Highlight the month with the highest sales in a different color.	10	6
3.	Develop a R to visualize the market share of five smartphone brands using a pie chart. Add percentage labels to each section of the pie.	10	6
	PART – B		
1.	Write a R program that plots a scatter plot to show the relationship between students' study hours and their exam scores. Add a trend line to analyze the correlation.	10	6
2.	Create a R to plot a histogram showing the age distribution of participants in a survey. Use appropriate bin sizes and label the axes clearly.	10	6

COORDINATOR

HOD/EEE

Head of the Department
Dept. of EEE
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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Environment History Connections Tutorial

Abinesh EEE: MARKLIST

Source code

```
1  slices <-c(25,30,20,25)
2  labels <-c("A","B","C","D")
3  pie(slices,labels = labels,main="Abinesh EEE: MARKLIST",col=rainbow(length(slices)))
4
```

Console Terminal Background Jobs

```
R  R 4.4.2 · ~/
> slices <-c(25,30,20,25)
> labels <-c("A","B","C","D")
> pie(slices,labels = labels,main="Abinesh EEE: MARKLIST",col=rainbow(length(slices)))
>
```

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```
1  mark=c(62,74,65,-4,58,80)
2  name=c("john","arun","bala","kani","siva","jeeva")
3  colour=c("red","green","blue","black","yellow","orange")
4  barplot(mark,name.arg=name,border="",main="mark",ylim=c(0,100),ylas="mark",col=colour)
5
```

Environment   History   Connections   Tutorial

Files   Plots   Packages   Help   Viewer   Presentation

mark

Console

R Script

Histogram

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

umvalueR   O removeDuplicateR   O bubblechartR   O densitypiot.R   O scatterplotR   O restmapR   O untled"   O c >>

Source or Save

```
1  x<-rnorm(50)
2  y<-rnorm(50)
3  plot(x,y,col="red",pch=19,main = "Sctter Plot",xlab="X-values",ylab = "y-values")
4
```

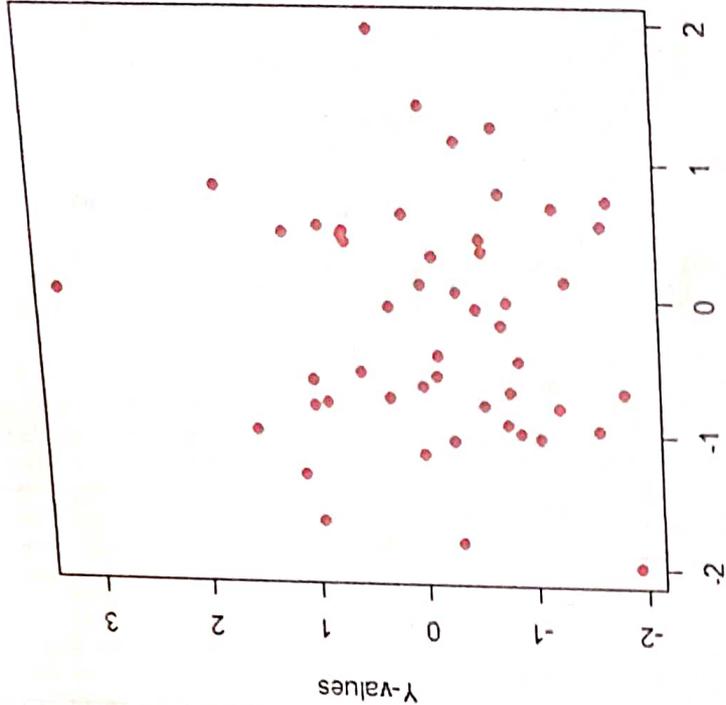Environment   History   Connections   Tutorial

Files   Plots   Packages   Help   Viewer   Presentation

Zoom   Export

Sctter Plot

Console   Terminal   Background Jobs

R 4.4.2 · ~/

```
> x<-rnorm(50)
> y<-rnorm(50)
> plot(x,y,col="red",pch=19,main = "Sctter Plot",xlab="X-values",ylab = "y-values")
>
```
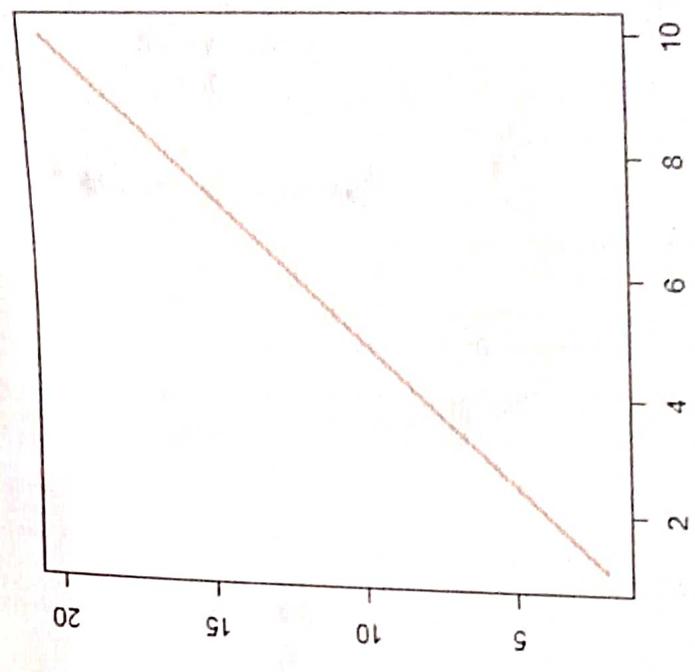
R Script

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Environment History Connections Tutorial

Untitled* count-vowel.R max&min R decrept.R ascending order.R pie bmiR line plot.R

```
1  x<-1:10
2  y<-c(2,4,6,8,10,12,14,16,18,20)
3  plot(x,y,type="l",col="orange",lwd=2,main="line plot",xlab="X-axis",ylab="Y-axis")
4
```

Files Plots Packages Help Viewer

Zoom Export

line plot

Console Terminal Background Jobs

R R 4.4.2 ·~/

```
> x<-1:10
> y<-c(2,4,6,8,10,12,14,16,18,20)
> plot(x,y,type="l",col="orange",lwd=2,main="line plot",xlab="X-axis",ylab="Y-axis")
>
```

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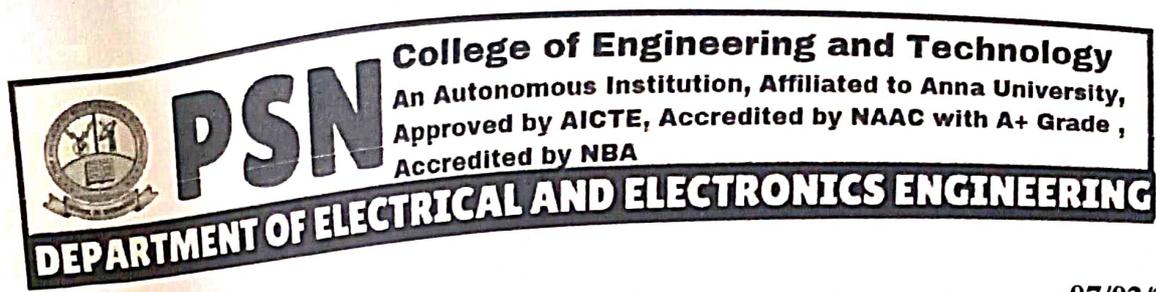
07/02/2025

List of students registered for Value Added Course onVAC 005"Data Analytics and Visualization using R Programming"

S.No	Roll.No	Name	Mark
1	95222204001	Abinesh R	100
2	95222204002	Anto Sharon A	71
3	95222204003	ChandruIyappan M	88
4	95222204004	Chinnamani M	100
5	95222204005	Elangovan T	92
6	95222204006	Gopinath T	95
7	95222204007	Gowtham B	99
8	95222204011	Murugan V	85
9	95222204012	Nathan K	96
10	95222204013	Nijanthan K	84
11	95222204014	Palanivel M	75
12	95222204015	Parthiban S	81
13	95222204018	Rakul T	80
14	95222204019	Sanjith A	82
15	95222204020	Sivakumar R	87
16	95222204021	Sridharan K	75
17	95222204023	Ulaganathan C S	86
18	95222204301	Devadersh R	79
19	95222204302	Dyson T	69
20	95222204303	Gajendran M	93
21	95222204304	Ganesh A	85
22	95222204305	Ram kumar B	79
23	95222204306	Thomas Antony Dafrin X	68
24	95222204307	Vinish S	79

Head of the Department/EEE

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08/02/2025

Value Added Course on Data Analytics and Visualization using R Programming

Certificates

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Certificate of Participation

This is to certify that Abinesh R of PSNCET has participated in the Five Days Value Added Course on **"Data Analytics and Visualisation using R Programming "** organized by Department of Electrical and Electronics Engineering conducted from 3.2.2025 to 7.2.2025.

A·Shiny Pradeepa
Convener
Ms.A.Shiny Pradeepa
M.E,MISTE.,(Ph.D)

A·Shiny Pradeepa
Head of the Department
Ms.A.Shiny Pradeepa
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Principal
Dr.S.P.Umayal M.E., Ph.D

Head of the Department

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10·2-25

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