In Celebration of the GOLDEN JUBLIEE of Siddhartha Academy of General & Technical Education(1975-2025)

Report on the Faculty Development Programme (FDP)
"R-Programming: Applications in Data Science and Research" with Hands-on Training,Organized by IQAC, SDMSMK

Day & Date: 20-11-2025 Thursday

Venue: Webinar Hall

Time: 10:00AM-04.15PM

Resource Person: Dr. Siva G

Assistant Professor Grade-I, Department of Statistics

VIT-AP University, Amaravati, Andhra Pradesh.

INVITATION:

PROGRAMME SHEET:

10.00AM - 10.05AM : Welcoming the guests on to the Dias

10.05AM - 10.10AM : Prayer Song

10.10AM - 10.15AM : Address by Principal

10.15AM - 10.20AM : Address by IQAC Coordinator

10.20AM - 10.30AM : Introducing the Resource Person.

10.30AM - 12.30PM : Practical Session-I by Resource Person

12.30PM - 1.30PM   : Lunch Break

1.30PM - 4.00PM   : Practical Session-II by Resource Person

4.00PM - 4.10PM   : Feedback by the Faculty Members

4.10PM - 4.15PM   : Vote of thanks

OBJECTIVE: The objective of the FDP was to equip faculty members with essential skills in R-Programming, enhance their understanding of statistical computing, and strengthen their ability to apply data science tools in research and academic work.

PROGRAMME HIGHLIGHTS

The Internal Quality Assurance Cell (IQAC) of SDMSMK organized a Faculty Development Programme (FDP) on *"R-Programming: Applications in Data Science and Research"* with Hands-On training on 20 November 2025.

PRAYER SONG:

ADDRESSING BY THE PRINCIPAL: The programme began with a formal welcome. In his welcoming address, the Principal Sir highlighted the vital connection between FDPs and research development. He emphasized how statistical tools form the backbone of modern research and explained how the subject of Statistics is integrated across various research methodologies, irrespective of discipline. He encouraged faculty members to make use of such platforms to strengthen their analytical capabilities.

ADDRESSING BY THE IQAC CO-ORDINATOR: This was followed by an address from the IQAC Coordinator Madam, who spoke about the practical applications **of** R-Programming in academic project development. She explained how R can be used for data handling, visualization, and statistical modeling, and stressed the importance of adopting modern analytical tools to improve the quality of student projects and research output.

BIO-DATA OF THE RESOURCE PERSON:

➢ His research expertise lies in Biostatistics and Classification Techniques, particularly ROC Analysis, which plays a significant role in medical data evaluation and diagnostic accuracy studies.

- Recently in 2023, sir has completed a Ph.D. in Statistics from the Department of Statistics, Pondicherry Central University, Puducherry.
- Prior to this, Sir had qualified the State Eligibility Test (SET) conducted by the Government of Andhra Pradesh in 2022.

In addition to this strong academic and research foundation, sir has an impressive record of achievements.

1. He is the recipient of the MN Das Memorial Young Scientist – 2025 Meritorious Award for Best Research Paper Presentation, awarded by the Society of Statistics and Computer Applications (SSCA).

2. He was also honored with the ISPS Young Statistician Award 2020 along with the Prof. Jayaram Sethuraman Gold Medal for Best Research Paper Presentation by the Indian Society for Probability and Statistics (ISPS).

3. During postgraduate studies, he secured the Prof. Senadhi Govindharajulu Gold Medal and the Prof. P. Balasddamuni Gold Medal for achieving first rank in M.Sc. Statistics, and also received the prestigious Prof. C.R. Rao Cash Prize for obtaining the highest score in the program.

4. He has consistently demonstrated academic excellence from the undergraduate level as well, being the First Rank Holder in the Bachelor's Degree in MSCs – Mathematics, Statistics, and Computer Science.

Furthermore, He has made significant academic contributions through research and publications.

- He has published 8 research articles, all of which are Scopus indexed, with 6 appearing in SCI journals and also authored 3 books.
- He is currently guiding one Ph.D. scholar.
- He has presented 20 research papers at various national and international conferences, and have delivered 10 invited talks in Faculty Development Programmes.

SESSION BY THE RESOURCE PERSON : The technical session was delivered by the resource person, Dr. G.Siva, Assistant Professor, Department of Statistics, VIT-AP University. Dr. G.Siva began by explaining that AI, Machine Learning, and Deep Learning techniques are all fundamentally derived from Statistics. He highlighted the importance of data in decision-making and described how Statistics is deeply embedded in all aspects of real life. He introduced R as a highly advanced smart calculator, capable of performing complex statistical computations efficiently.

During the afternoon hands-on session, Dr. G.Siva demonstrated the use of the R-console, including basic commands and data processing techniques. Faculty members learned how to draw histograms, bar graphs, and pie charts in R. The session also covered the application of t-tests and their relevance in research, enabling participants to understand how statistical tests can be implemented and interpreted using R.

OUTCOME OF THE FDP: The FDP provided participants with practical exposure to R-Programming and its applications in data science and research. Faculty members gained confidence in executing basic statistical operations, visualizing data, and performing hypothesis testing using R. The programme enhanced their analytical skills, encouraged research-oriented thinking, and strengthened their ability to guide student projects more effectively.

ATTENDANCE SHEET:

Morning Session

SRI DURGA MALLESWARA SIDDHARTHA MAHILA KALASALA : VIJAYAWADA –10
CIRCULAR- 2025-2026 (ODD)

IQAC FDP on "R-Programming: Applications in Data science & Research"

Date: 20\1\25   Attendance Sheet (Morning session)

Dr.V.V.S . KUMAR
PRINCIPAL

Sri./Smt./Dr./Kum.

Dept. of English		sign	Dept.of Computer Science		Sign
01	K.Sailaja Rani		01	M. Praveena	
02	K.Sasi		02	M. Dharma Vardhani	
03	P.Ratna Sree		03	B.Kavitha	
04	Y. Sri Sindhu		04	V.Siva Krishna Veni	
05	S.Hindola		05	B.Komali	
Dept.of Telugu			06	P. Harika	
01	K.Sarala		07	P. Sri Bharathi	
02	I. Manjula		08	L. Ramya	
Dept.of Hindi			09	M. Swetha	
01	A.Rama Lakshmi		10	S.Gokbila	
Dept.of Mathematics			11	P. Anusha	
01	P.V.Durgavathi		12	P. Naga Sri Abhinaya	
02	B.Kiranmayi		13	Sk. Nageena	
03	K. Bhanu Priya		14	D. Sowjanya	
04	Y. Praroopa		15	G. Harsha Nandini	
05	N. Jahnavi Devi		16	M.Amrutha	
Dept.of Statistics			17	J. Harshini	
01	P. Maheswari		18	K. Rekha	
02	B.Haritha		19	M. Beulah	
03	K. Ramya Sree		20	M.S.N.L. U. Brahmarambha	
04	Ch.Glory		21	K. Rekha Devi	
05	G Sumathi Swarupa		22	P. Bhargavi	
Dept. of Electronics			23	A.Vasevi	
01	J. Parasamayi Kanthi		24	P. Meghana Durga	
02	Ch. Radha Krishna Manohari		25	Y. Padmaja	
03	N.Yamini Babitha		26	G. Bhanu Sri	S. Bhanu Sri
04	N. Himaja		**Dept. of Chemistry**		
Dept. of History			01	M. Subhashini	
01			02	B. Lavanya	
Dept.of Physics			03	Y. Ramya	
01	M.Geetha Madhuri		04	M. Syamala	
02	D. Neeraja		05	M. Radhika	
03	S. Naga Suneetha		**Dept. of Economics**		
Dept.of Botany			01	D. Aruna	
01	T. Salomi		02	M. Suneetha	
02	B. Sailaja		**Dept. of Political Science**		
Dept. of Zoology & Aqua Culture			01	G.Padmaja	
01	R. Ramani		02	T. Anjali	
02	I. Anitha Hema Sri				
03					

(P.T.O)
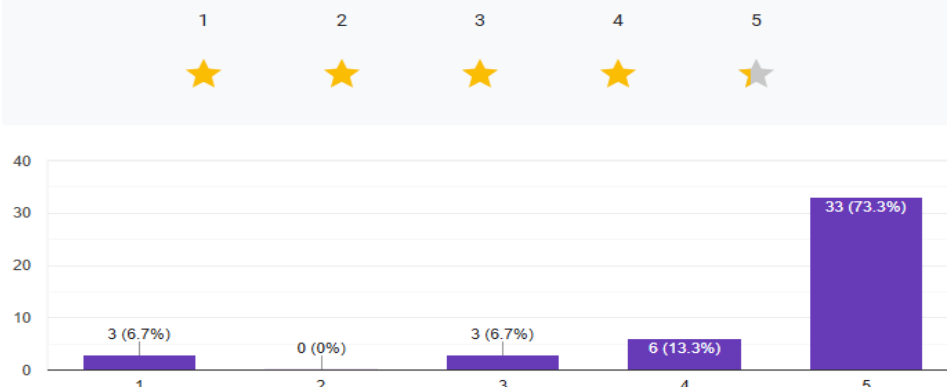
Afternoon Session

FEEDBACK FROM THE FACULTY:

How would you rate the delivery and presentation skills of the resource person?   Copy chart

45 responses

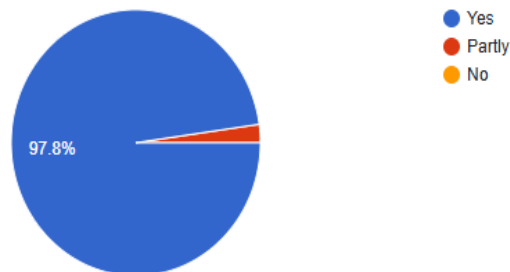**Average rating (4.47)**

1	2	3	4	5
★	★	★	★	☆

- 1: 3 (6.7%)
- 2: 0 (0%)
- 3: 3 (6.7%)
- 4: 6 (13.3%)
- 5: 33 (73.3%)

Was the content delivered by the resource person clear, relevant, and useful for your academic/teaching work?

Copy chart

45 responses

- Yes
- Partly
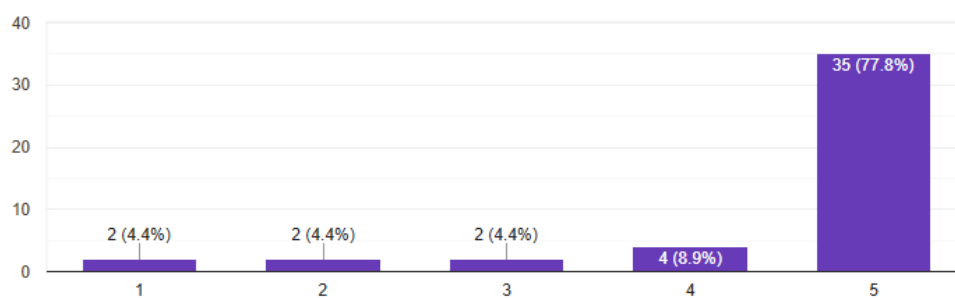- No

97.8%

The Hands-On training session was useful and interesting.

Copy chart

45 responses

Rating	Responses
1	2 (4.4%)
2	2 (4.4%)
3	2 (4.4%)
4	4 (8.9%)
5	35 (77.8%)

How would you rate the level of interaction and engagement during the FDP?

Copy chart

45 responses

Rating	Responses
1	2 (4.4%)
2	0 (0%)
3	0 (0%)
4	6 (13.3%)
5	37 (82.2%)

What is your opinion about the overall effectiveness of the FDP?

45 responses

Legend:
- Excellent
- Good
- Average
- Satisfactory

66.7% Excellent
31.1% Good
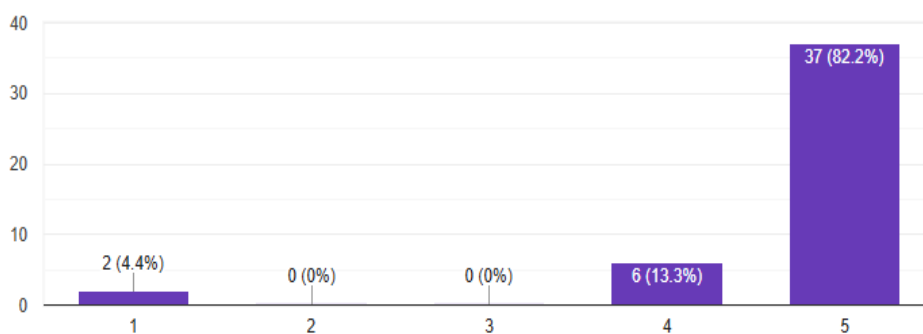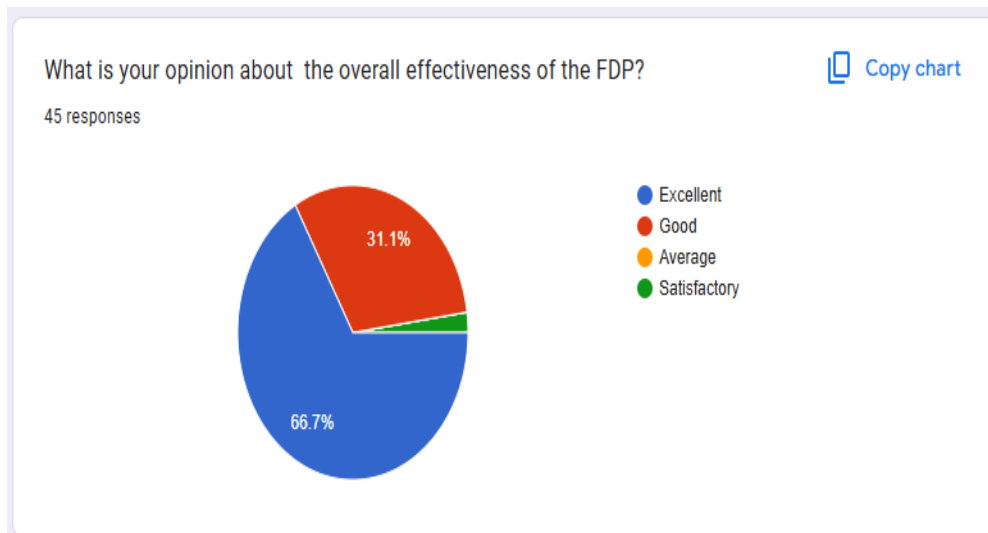
What was the most useful takeaway from the FDP?

Data collection and storage
Learning about R studio
R programming tools
Hands on training with real life examples delivered by the resource person
Research methodologies
The way of explaining with good set of examples
So many applications with this in real world life
Applications of statistics in research
To get more knowledge on Research
Hypothesis

What topics would you like to see covered in Future FDPs?

Spss, Machine learning, AI tools, LATEX,H indexing, Moodle, Phyton, Research methodology, Python, More applications of statistics in research, Quantum T echnologies, Research Tools, Open AI resources for paper writing Free tools for plagiarism check
Research survey releted awareness programmes conducting in future.

****