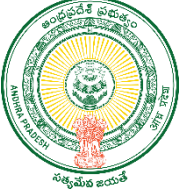


**Report
on**



**5 Day Non-Residential Training Programme
Single Major Subject in Economics
From 16.04.2024 to 22.04.2024**



Conducted by

**Commissionerate of Collegiate Education
Government of Andhra Pradesh**

Organized by

**PSC & KVSC Govt. Degree College
Nodal Resource Centre, Nandyal, Nandyal Dist.
Affiliated to Rayalaseema University, Kurnool**

**Smt. S. PARVATHI
NRC Coordinator
GDC Nandyal**

**Dr. N. SHASHIKALA
Principal
GDC Nandyal**



MALAVIYA MISSION
TEACHER
TRAINING PROGRAMME



VIKSIT
BHARAT
@2047

Training of Trainers (TOT) **05 days Non-residential Training Programme**

Commissionerate of Collegiate Education
Government of Andhra Pradesh

Single Major Subject ECONOMICS



Content Design
Using AI



Internships



Incubating
Startups



Research &
Innovation



Major Funding
& Publications



Innovative
Pedagogy



New & Advanced
knowledge



Exposure Visits



Content Design
& Development



16.04-.2024 to
22-04-2024

Venue : PSC & KVSC Govt. Degree College, Nandyal



Commissionerate of Collegiate Education (CCE) Government of Andhra Pradesh
5 -Day Residential TOT in Single Major – Economics from 16.04.2024 to 20.04.2024



Date/Day	10 AM - 11.30 AM		11.45 AM - 1.15 PM		2 PM - 3.30 PM		3.45 PM - 5.15 PM
TUESDAY 16.04.2024	Inaugural Session		Prof. N. Prasanna, Bharathidasan University Tiruchirappalli Promoting Creativity, Innovation & Entrepreneurship in HEIs		Prof. Minaketan Behera, JNU, Delhi, Writing a Research Paper for a Journal		Dr. D. V.Nageswara Rao Key Resource Person Integrations (Online Mode)
WEDNESDAY 17.04.2024	HOLIDAY		HOLIDAY	L U N C H	HOLIDAY		HOLIDAY
THURSDAY 18.04.2024	Session by Key Resource Person (Offline Mode)	T E A	Session by Key Resource Person (Offline Mode)		Dr. Varghese Kunjappu, CSRD, JNU" Introduction to STATA Software"	T E A	Prof. B. Srinivas CSRD, JNU Research Project Proposal
FRIDAY 19.04.2024	Prof Indrani Roy Chowdhury, CSRD, JNU Probability Distribution	B R E A K	Session by Key Resource Person (Offline Mode)		Dr. Sandip Datta Delhi School of Economics Unconstraint & Constraint Optimization	B R E A K	Session by Key Resource Person (Offline Mode)
SATURDAY 20.04.2024	Dr. Varghese Kunjappu, CSRD, JNU "Working with Periodic Labour Force Survey Data using STATA"		Prof Indrani Roy Chowdhury, CSRD, JNU Estimation and Hypothesis Testing	B R E A K	Session by Key Resource Person (Offline Mode)		Session by Key Resource Person (Offline Mode)
SUNDAY 20.04.2024	HOLIDAY		HOLIDAY		HOLIDAY		HOLIDAY
MONDAY 22.04.2024	Session by Key Resource Person (Offline Mode)		Prof. Sujay Chakravarty Foundations of Behavioural Economics		Prof Lekha Chakraborty, National Institute of Public Finance & Policy Gender and Economic Development		Valedictory

Day 1- 16-04-2024

**Session 1
Inaugural Session**



Honourable Commissioner of Collegiate Education Dr. Pola Bhaskar IAS, sir, attended the TOT inauguration on virtual mode and spoke on TOT and explained well how the TOTs are useful to the lecturers in bringing the New Education Policy (NEP) into reality. Commissioner Sir highlighted the Teaching aspects, Community Service Projects, and Internships for giving the skills needed for employability. Sir particularly mentioned the apps for monitoring these aspects from the Commissionerate of Collegiate Education.





The Inaugural session of TOT was presided by Dr. N. Shashikala, Principal of GDC, Nandyal, she gave an inspiring message to all the faculty who were present in the training program on the topic of how the TOTs are useful for teachers to update their knowledge and subject.



Smt. S. Parvathi, NRC Coordinator of GDC Nandyal addressing the participants

Day 1- 16-04-2024

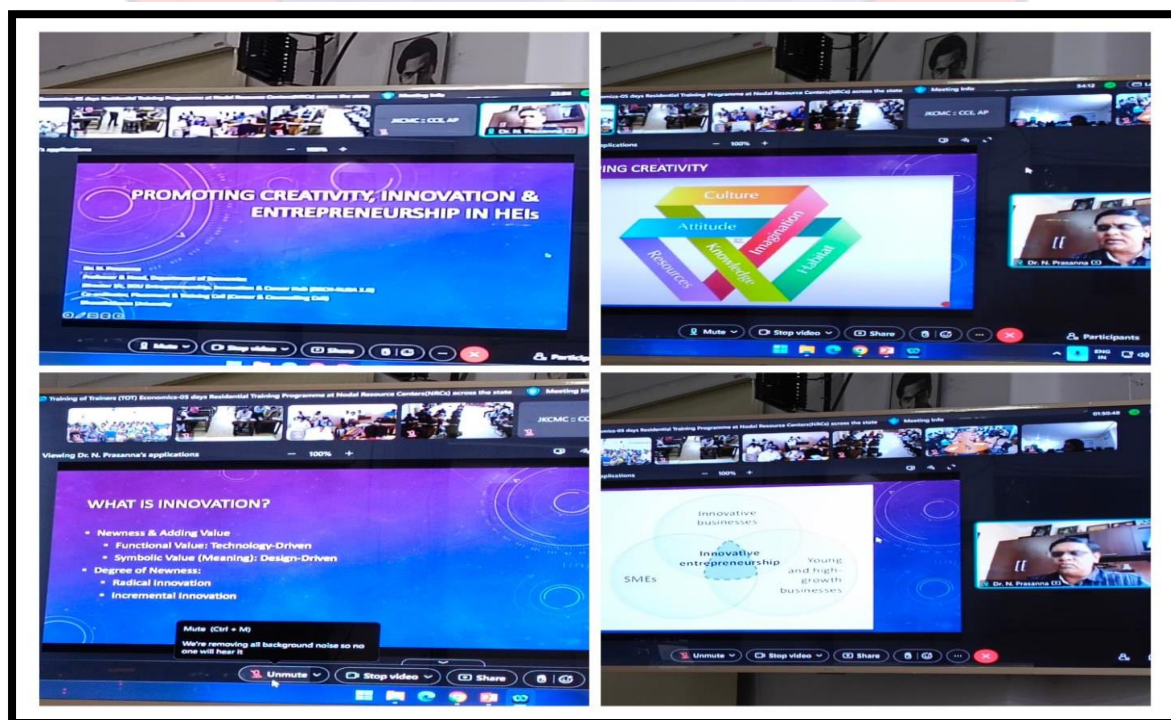
Session 2

Promoting Creativity, Innovation & Entrepreneurship in HEIs by

Dr. N. Prasanna sir Professor & Head at Department of Economics, Bharathi Nandan university, Tiruchirappalli

Dr. N. Prasanna, Professor & Head at the Department of Economics, Bharathi Nandan University, Tiruchirappalli, took a session on “Promoting Creativity, Innovation & Entrepreneurship in HEIs”. He highlighted how creativity leads to innovation, and innovation further leads to entrepreneurship. He emphasized the importance of incorporating creative thinking into academic disciplines, enabling students to approach problems innovatively. He suggested the development of courses that encourage collaboration and creative problem-solving. He highlighted the role of HEIs in creating supportive ecosystems that nurture innovation and entrepreneurship.

Explored the establishment of innovation hubs, maker spaces, and co-working spaces on campuses to facilitate collaboration and idea generation. Sir discussed the significance and scope of providing entrepreneurship education within economics including courses on business fundamentals, start-up incubation programs, and mentorship opportunities. He advocated for fostering an entrepreneurial mindset among students, regardless of their field of study.



Day 1- 16-04-2024

Session 3

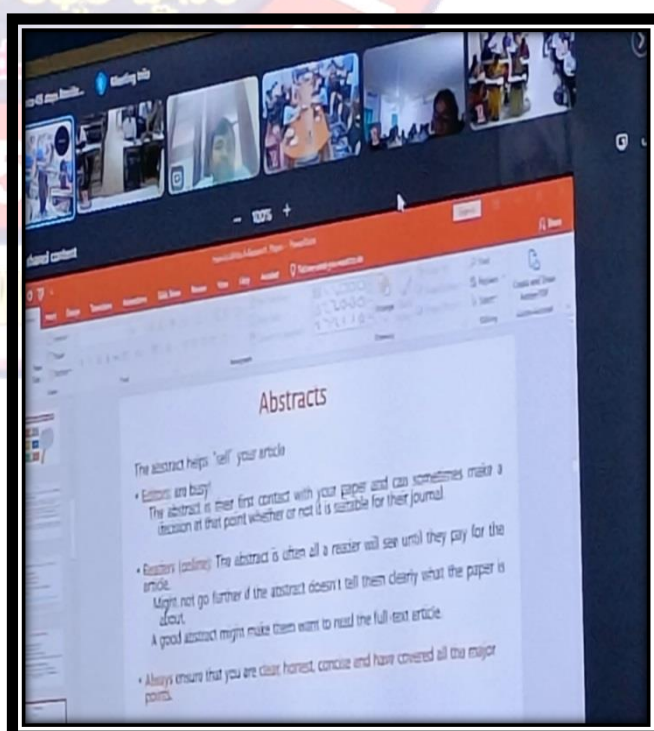
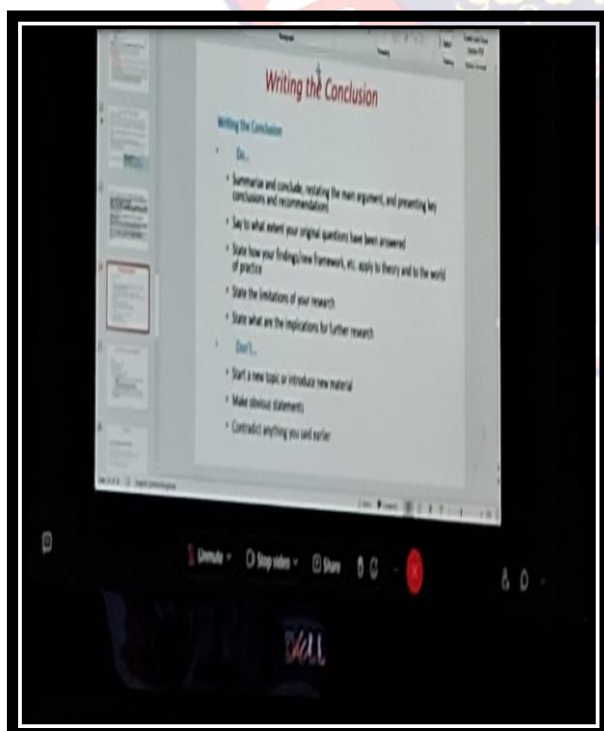
Topic: Writing a Research Paper for Journal

Resource Person: Prof. Minaketan Behera, JNU, New Delhi

The session was engaged by Prof. Minaketan Behera at Jawaharlal Nehru University (JNU), Delhi, aimed to provide guidance and practical tips to researchers on writing research papers for publication in academic journals.

Prof. Behera discussed strategies for identifying suitable journals and understanding their submission guidelines. Provided insights into the typical structure of a research paper, including introduction, literature review, methodology, results, discussion, and conclusion. He discussed the importance of maintaining a clear, concise, and coherent writing style in writing the proposal. He covered the basics of citation Provided guidance on citing sources ethically and avoiding plagiarism.

Maniketan Behera Provided an overview of the peer review process and its significance in ensuring the quality and credibility of research publications. Prof Behera offered tips for responding to reviewer comments and revising manuscripts based on feedback if any. He FURTHER Discussed ethical considerations in research publication, including issues related to authorship, conflicts of interest, and research integrity. He emphasized the importance of adhering to ethical standards and guidelines set forth by academic institutions and journals.



Day 1- 16-04-2024

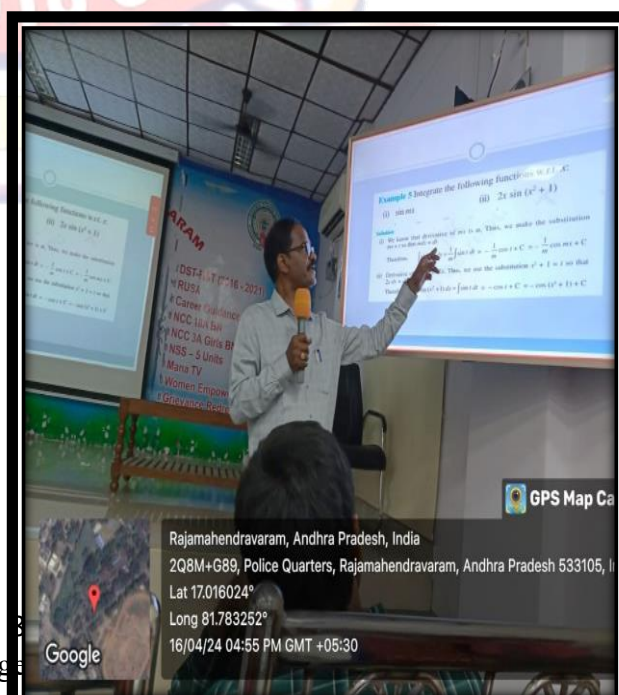
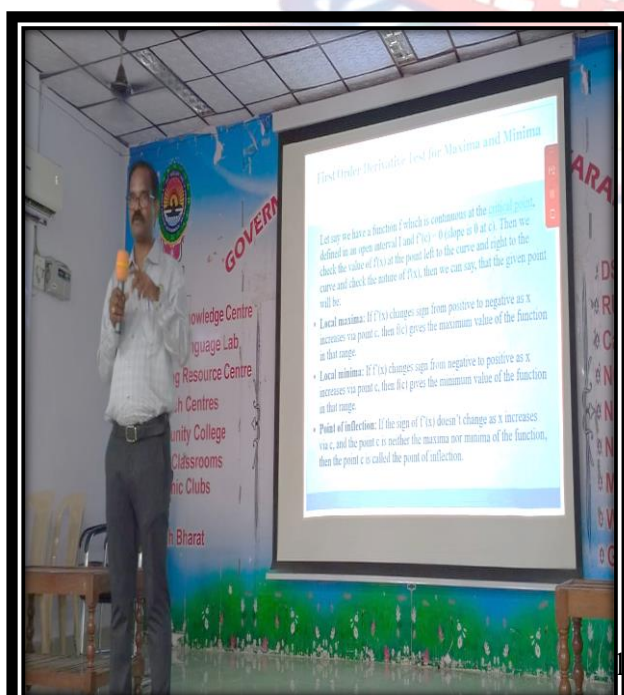
Session 4

Topic: Application of Differentials and Integrations

Resource Person: Dr. D. Nageswara Rao

Dr. D. Nageswara Rao delivered a lecture on Differentials and Integrations, delving into the fundamental concepts and applications of these mathematical tools in and its application in economics.

He started the class with Limits and differentials then he elucidated their role in understanding marginal changes in economic variables. He discussed how differentials help economists quantify small changes in quantities such as production, consumption, and revenue, thereby facilitating decision-making processes in various economic scenarios. Transitioning to integrals, Dr. D. Nageswara Rao explored their application in economic modelling and analysis. He highlighted how integrals are utilized to calculate total economic variables over specific time periods or across different regions. Dr. Rao illustrated how integral calculus enables economists to analyze trends, predict future outcomes, and evaluate the overall economic performance of a system. Throughout the lecture he provided concrete examples of differential and integral calculus applied in economics, ranging from marginal cost analysis, consumer surplus and growth rates etc. By the conclusion of the lecture, attendees gained a deeper understanding of how differentials and integrals serve as indispensable tools for economists.



Day 2: 18.04.2024

Session 1 - Offline Session

Topic: Theories of International Trade

Key Resource Person: Dr. G Vijaya Lakshmi Devi

On the second day training program Dr. G. Vijaya Lakshmi Devi, Resource Person given presentation on “Theories of International Trade”. She explained about what is International Trade or Foreign Trade and its role in the global economy. In this session the resource person explained the types of International Trades like, Exports Trade, Imports Trade, Re-exports Trade and Re-imports Trade. Each trade plays a crucial role in the global economy by facilitating the exchange of goods and services between countries.



Day 2: 18.04.2024

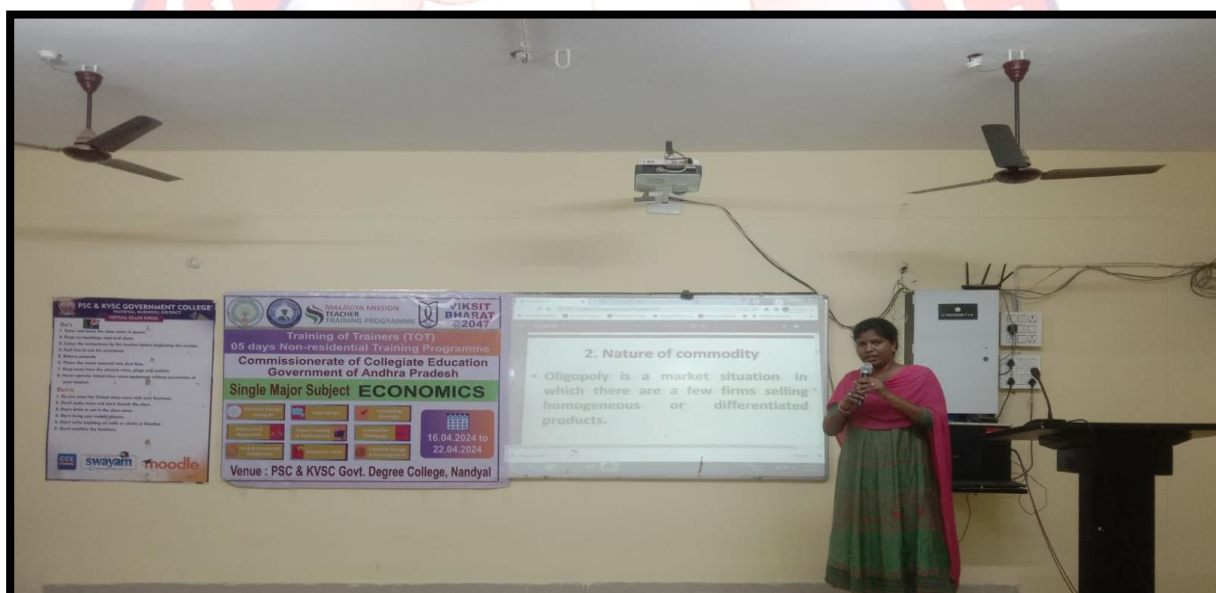
Session-2 - Offline Session

Topic: Characteristics of Oligopoly

Key Resource person: Kum. B. Lakshmi Narasamma

In the second session Kum. B. Lakshmi Narasamma, Key Resource Person explained about the characteristics of Oligopoly

- There are a few large firms although the exact number of firms undefined
- Barriers to entry
- Firms try to avoid price competition due to the theory of price wars
- Every firm has significant role
- Every firm interdependent among other firms
- The Product is either homogeneous or differentiated
- Selling costs are highly important



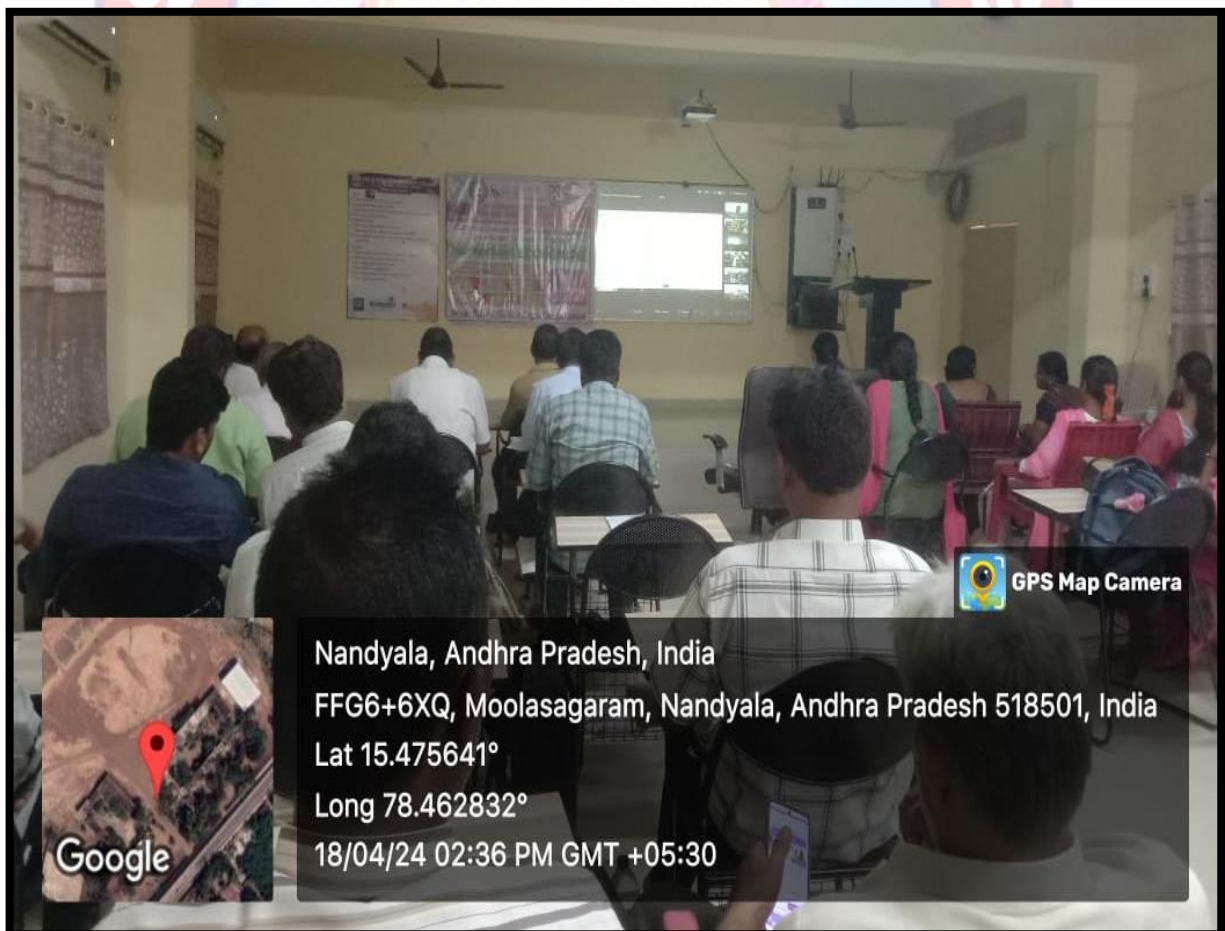
Day 2: 18.04.2024

Session-3 - Online Session

Topic: Introduction of STATA Software

Resource Person: Dr. Varghese Kunjappy

Statistical software like Stata is indeed a powerful tool for data analysis, but proficiency goes beyond just knowing commands. Understanding the software's interface and syntax methods is crucial for effective analysis. STATA offers various interfaces catering to different user preferences and needs. The command-line interface (CLI) is preferred by many experienced users for its efficiency and flexibility. Others might prefer the point-and-click interface (GUI), which provides a more user-friendly experience, especially for beginners or those less comfortable with coding. Syntax writing in STATA involves using commands to manipulate data. For example, the "generate" command creates new variables based on existing ones, allowing for data transformation and analysis.



Day 2: 18.04.2024

Session- 4 - Online Session

Topic: Research Project Proposal

Resource Person: Prof. Srinivas Bathula, CSRD, JNU



Introduction about the Prof. Bathula Srinivas, Online Resource Person by Dr. Guru Mohan Reddy from GDC Nandyal Nodal Resource Center.



In the fourth session of second day training program Prof. Bathula Srinivas has delivered a good lecture on how to send a research proposal. He explained various aspects of writing a research paper were discussed such as Title where the core contents of the paper are mentioned in a nutshell. An abstract summarizes the major contents of the paper.

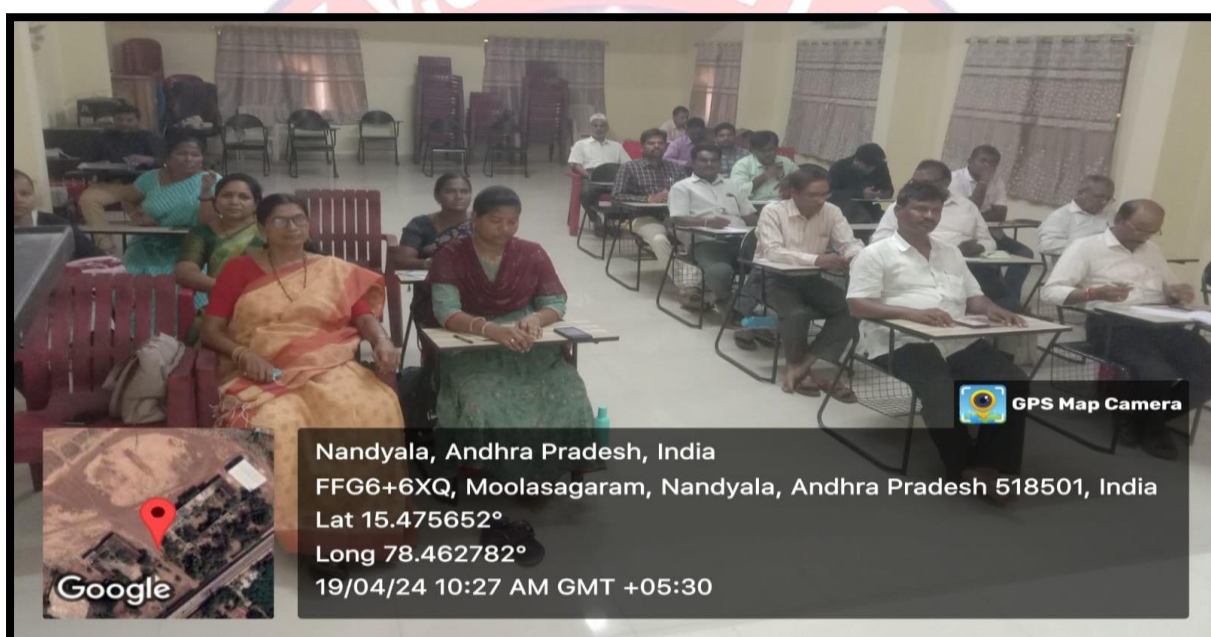
Day 3: 19.04.2024

Session 1 - Online Session

Topic: Sampling Distribution and Probability Distribution

Resource Person: Prof. Indrani Roy Chowduri

In this session the speaker introduced about the basics of probability. Further Madam, spoke extensively about properties of Estimates, Standard errors, Probability distribution function, cumulative distribution function, Binomial Distribution, poisson distribution, properties of normal distribution and standard normal distribution.



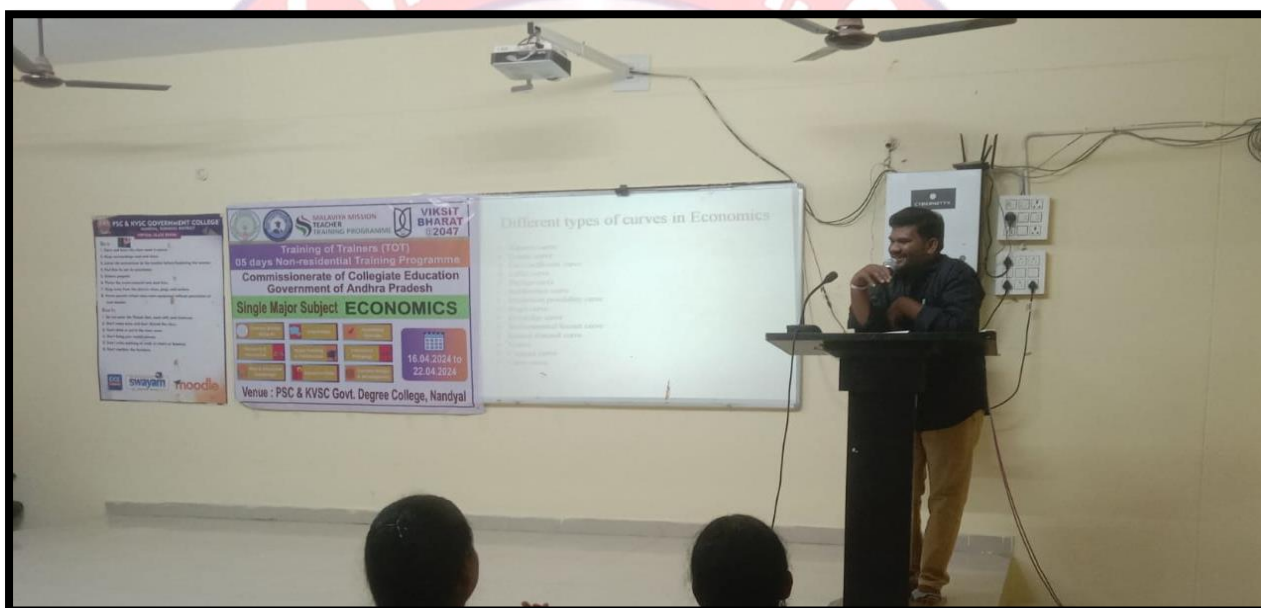
Day 3: 19.04.2024

Session 2 - Offline Session

Topic: ICT Initiatives

Key Resource Person: Sri. D. Bala Narasimhulu

The Session started with explaining importance of English, Google lens, Artificial Intelligence, Hands on training on ChatGPT, GPT Pro, Whatsapp Poll ans Slide maker was given by Sri. D. Bala Narasimhulu.



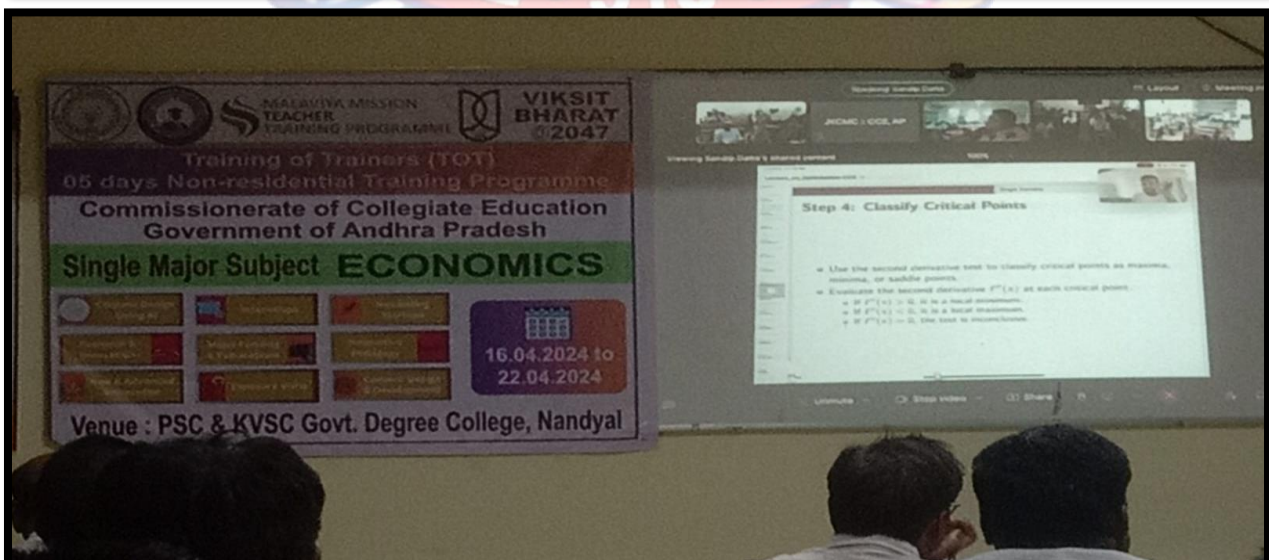
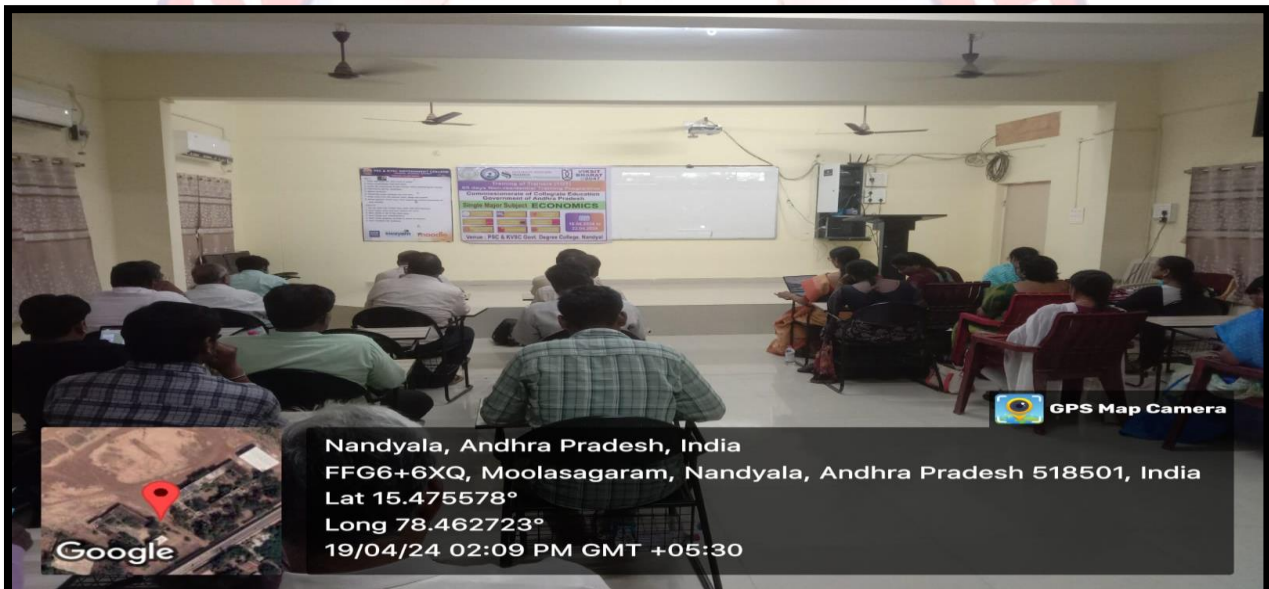
Day 3: 19.04.2024

Session 3 - Online Session

Topic: Unconstraint and Constraint Optimization

Resource Person: Dr. Sandip Datta

Constrained optimization refers to the process of maximizing or minimizing a function subject to certain constraints or restrictions. In Economics constrained optimization is essential for modeling real world sceneries where decision makers face limitations or constraints. It allows economists to analyze resource allocation, consumer behavior, product decisions and market equilibrium under various constraints. Understanding constrained optimization helps economists make informed policy decisions and analyze the efficiency of economic policies. There are mathematical approaches of solving constraint optimization such as Lagrange Multiplier Method, Karush-Kulon-Tucker Conditions and Numerical methods.



Day 3: 19.04.2024

Session 4 - Offline Session

Topic: Different types of Curves

Key Resource Person: Sri. D. Bala Narasimhulu

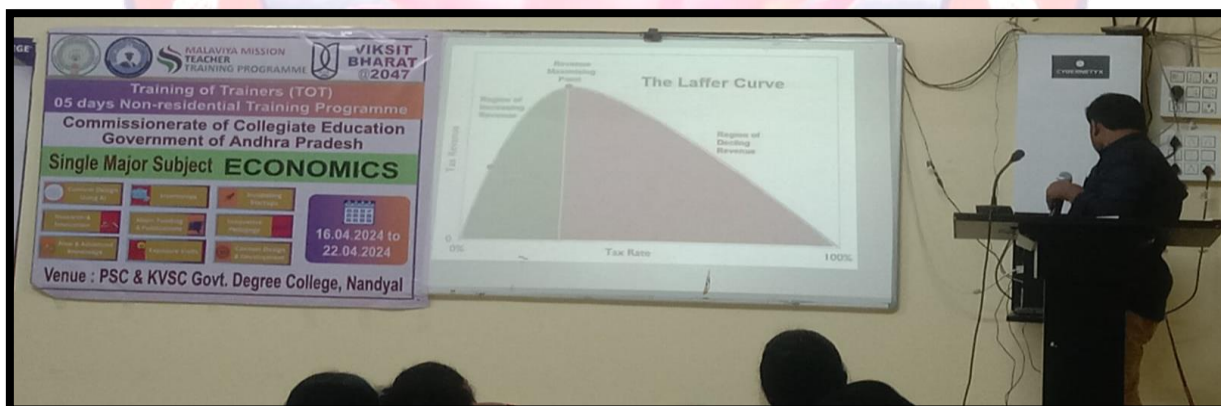
In Economics curves play an important role to reflect and represent so many concepts.

Types of Curves:

Kuznets Curves: This is developed by economist Simon Kuznets in 1950. It shows the relationship between a country's per capita income and its inequality of income distribution.

Lorenz Curve: The Lorenz curve is a way of showing the distribution of income within an economy. It shows the cumulative share of income from different sections of the population.

Laffer Curve: The Laffer Curve shows the relationship between rates of taxation and the resulting levels of government revenue. It is based on the principle that lowering tax rates boost economic growth as it causes increased spending by putting money into the hands of taxpayers.

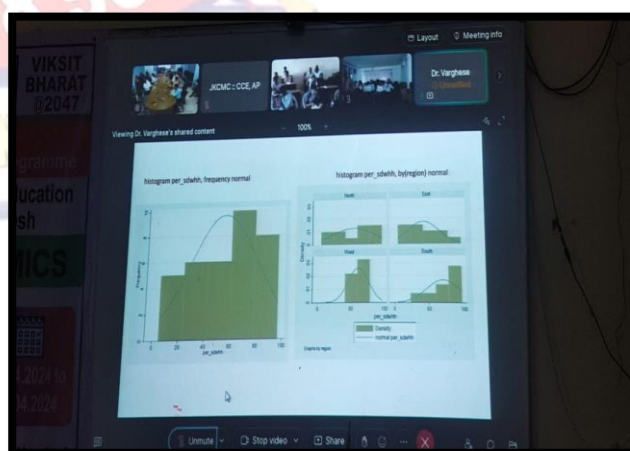
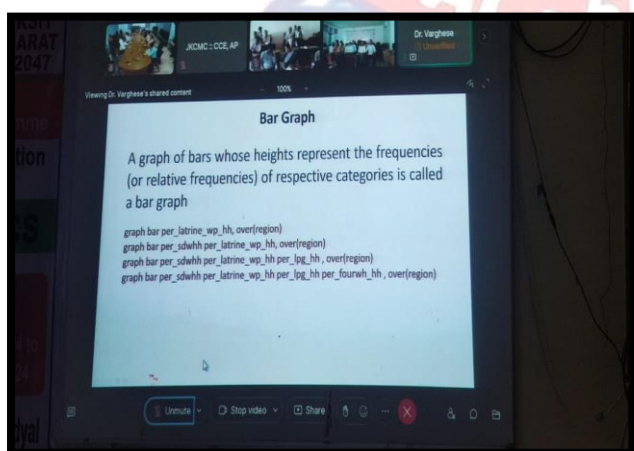


Day 4: 20.04.2024

Session 1 - Online Session

Topic: Working with Periodic Labour Force Survey Data using STATA

On fourth day of TOT first session was taken by Dr. Varghese Kunjappy, CSRD, JNU. He engaged the session by online mode. The speaker explained various graphical representing analyses, and various graphical diagrams like bar diagrams, bar diagrams and histograms. The STATA software provides various commands and tools that facilitate data management, visualization, and statistical modeling, making it an efficient tool for analyzing PLFS data. Resource persons explained in using STATA for data analysis can provide valuable insights and guidance on how to effectively work with PLFS data to derive meaningful conclusions and make informed decisions. PLFS data using STATA can help researchers.



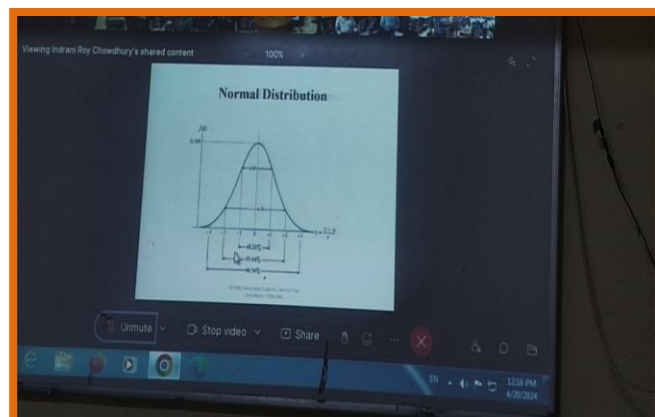
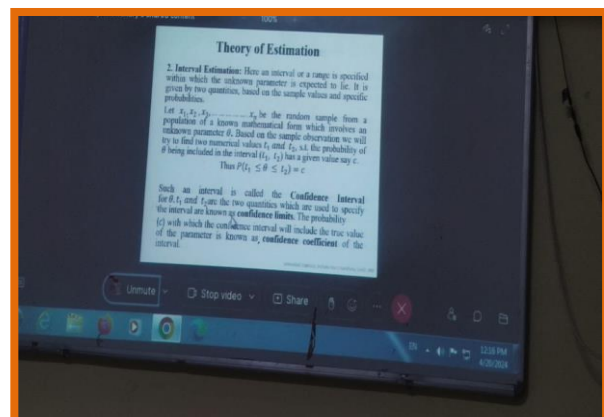
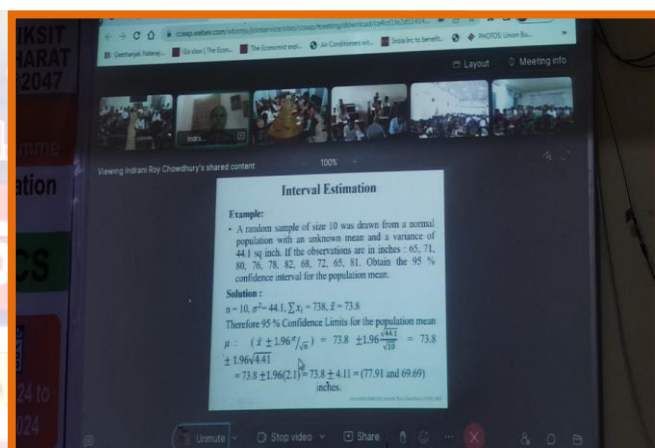
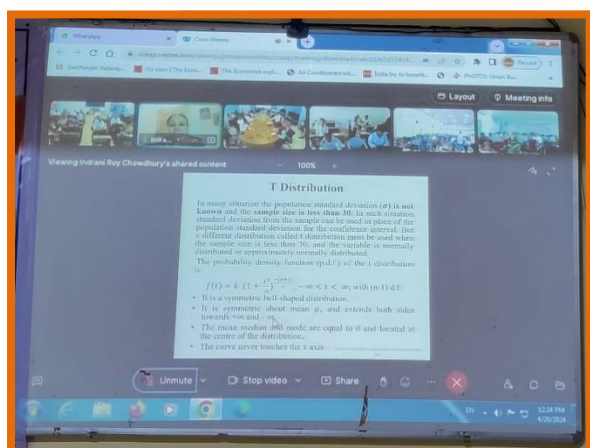
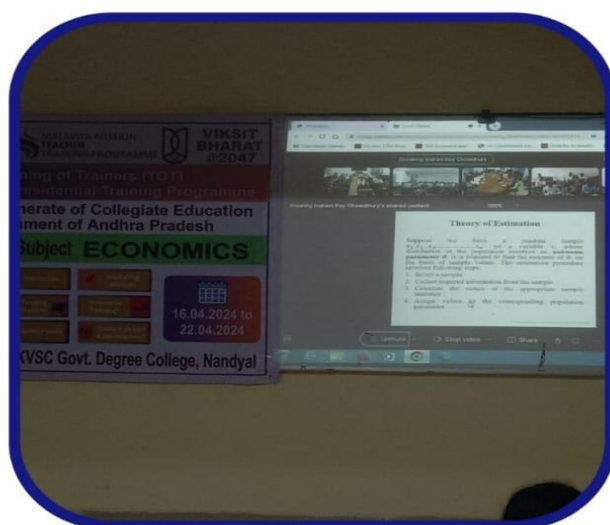
Day 4: 20.04.2024

Session-2 - Online Session

Topic: Estimation and Hypothesis Testing

Resource person: Prof. Indrani Cowdhury, CSRD, JNU, New Delhi.

The hypothesis testing class conducted by resource person Prof. Indrani Cowdhury was highly informative and engaging. The class covered the fundamental concepts of hypothesis testing, including null and alternative hypotheses, significance levels, and p-values. Prof. Indrani effectively explained how to formulate hypotheses, select appropriate tests, and interpret results.



PSC & KVSC Govt. Degree College (Nodal Resource Centre), Nandyal

Day 4: 20.04.2024

Session-3 - Offline Session

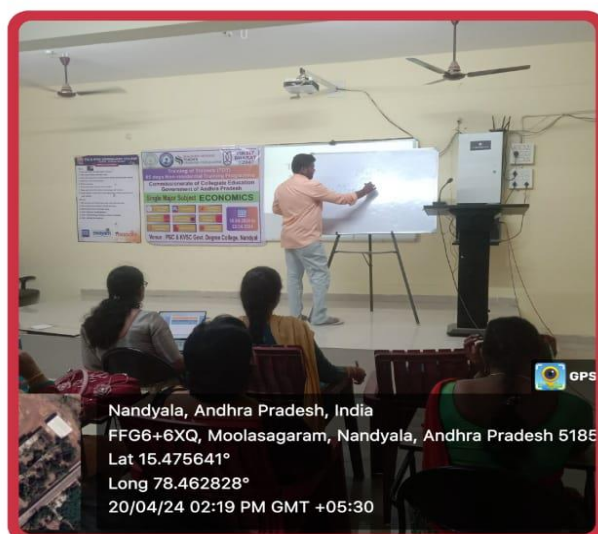
Topic: Types of Matrices

Resource Person: D. Bala Narasimhulu, GDC Rayadurg, Key Resource Person

This session was engaged by D.Bala Narasimhulu, Lecturer in Economics, GDC, Rayadurg, and Key Resource Person. He explained the different types of Matrices with examples.

The types of matrices covered in the class may include:

1. Square matrices: Matrices with an equal number of rows and columns.
2. Diagonal matrices: Matrices in which all off-diagonal elements are zero.
3. Symmetric matrices: Matrices that is equal to their transpose.
4. Identity matrices: Matrices with ones on the diagonal and zeros elsewhere.
5. Zero matrices: Matrices in which all elements are zero.
6. Row and column matrices: Matrices with only one row or column respectively.



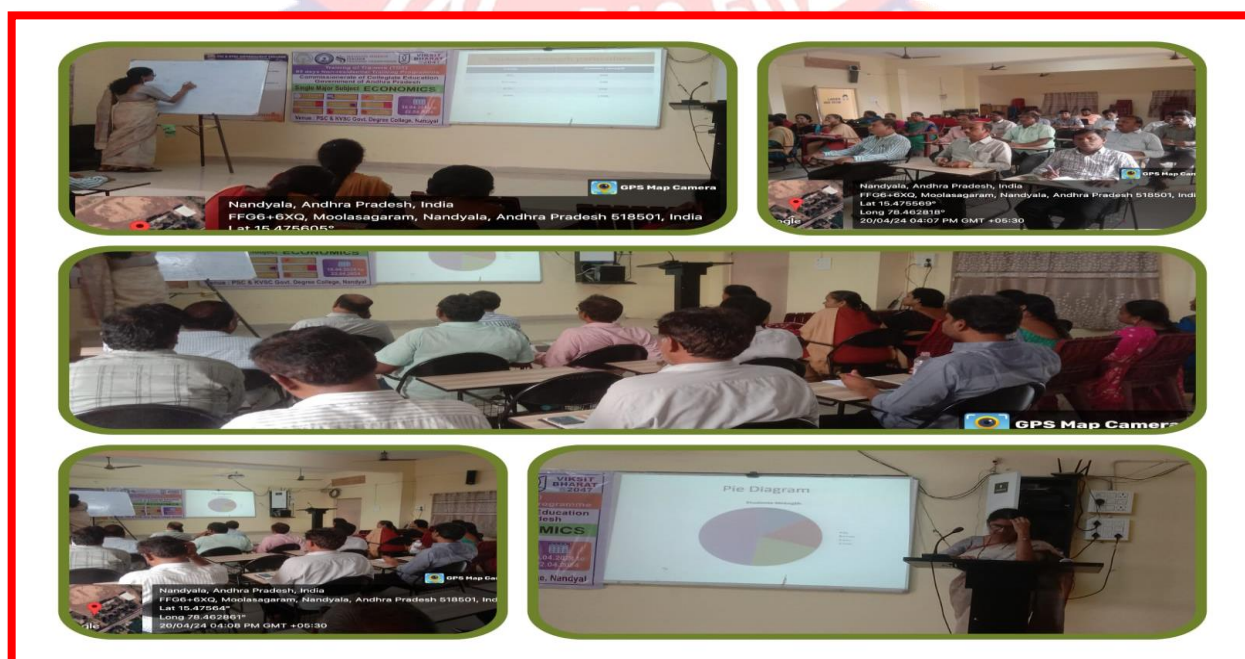
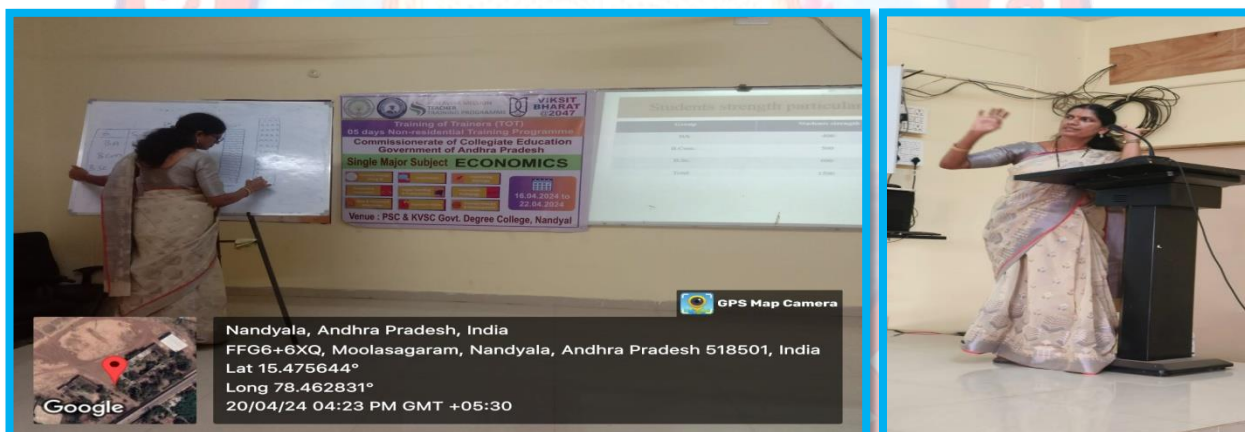
Day 4: 20.04.2024

Session-4 - Offline Session

Topic: Statistical Methods- Graphical presentation

Resource Person: Dr.G.Vijaya Lakshmi Devi, GDCW, Kadapa, Key Resource Person

This session was taken by the Key resource person Dr. G. Vijaya Lakshmi Devi on the topic of Graphical Presentation. This session aimed to enhance participants' understanding of statistical methods and effective graphical presentation techniques. She introduced various statistical methods and how to apply these methods to analyze data and draw meaningful conclusions. The session focused on the importance of effective graphical presentation in conveying information visually. Various types of graphs and charts, such as bar graphs, and pie charts were discussed in detail. Participants learned how to choose the right type of graph for different data sets and how to create informative presentations. She provided real-world examples to illustrate the application of statistical methods and graphical presentation techniques. Participants had the opportunity to work on case studies and exercises to practice their newly acquired skills.



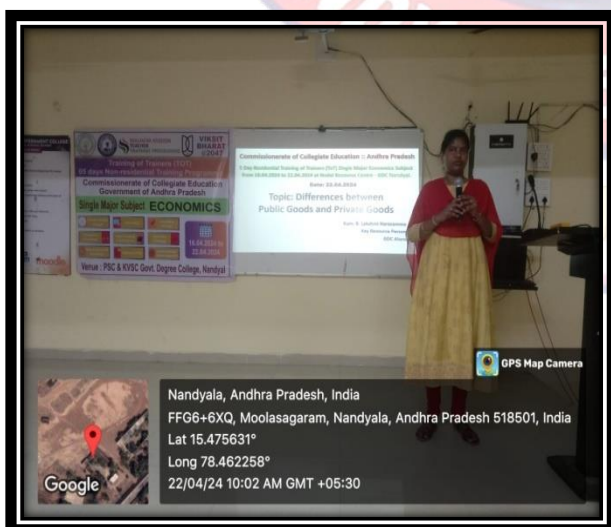
Day 5: 22.04.2024

Session 1 - offline Session

Topic: Difference between Public Goods and Private Goods

Key resource Person: Kum. B. Lakshmi Narasamma, GDC Aluru.

Key Resource person explained about the Public goods and private goods. They are two different types of goods that serve different purposes in an economy. Example of public goods is public parks and libraries. Private goods are excludable and rivalries, meaning that they are exclusive to those who pay for them and consumption by one person reduce the availability of the good for others. Examples of private goods are cloths, food etc.



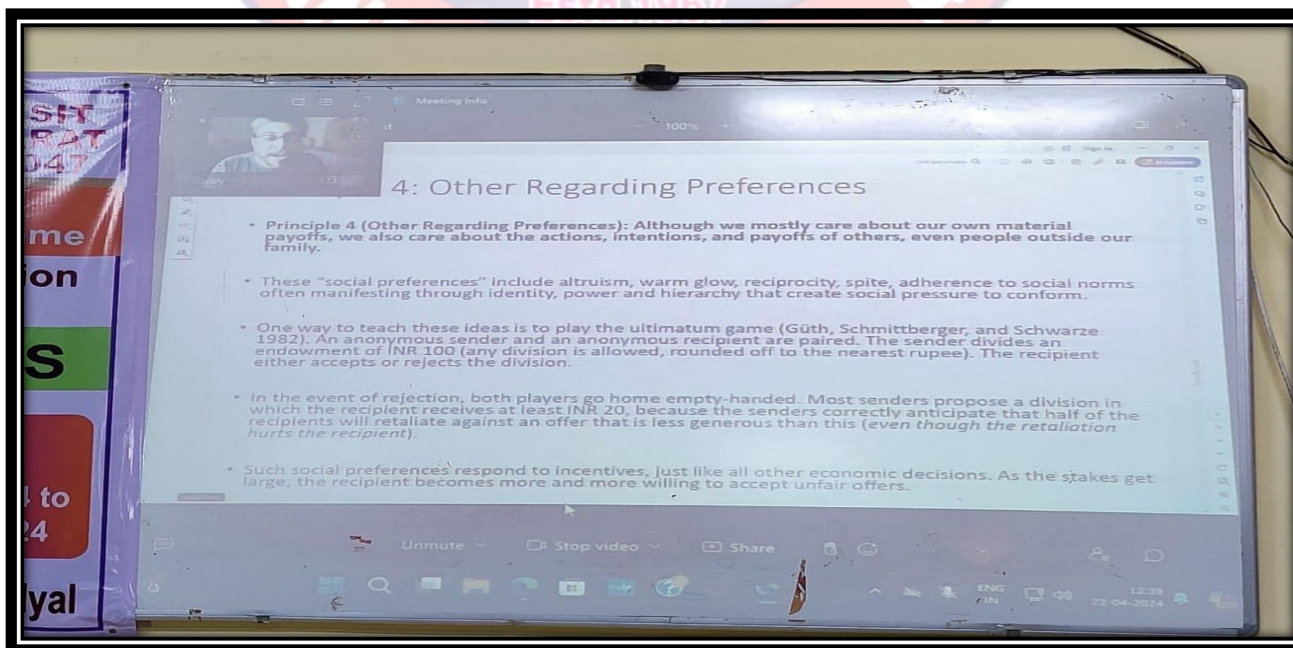
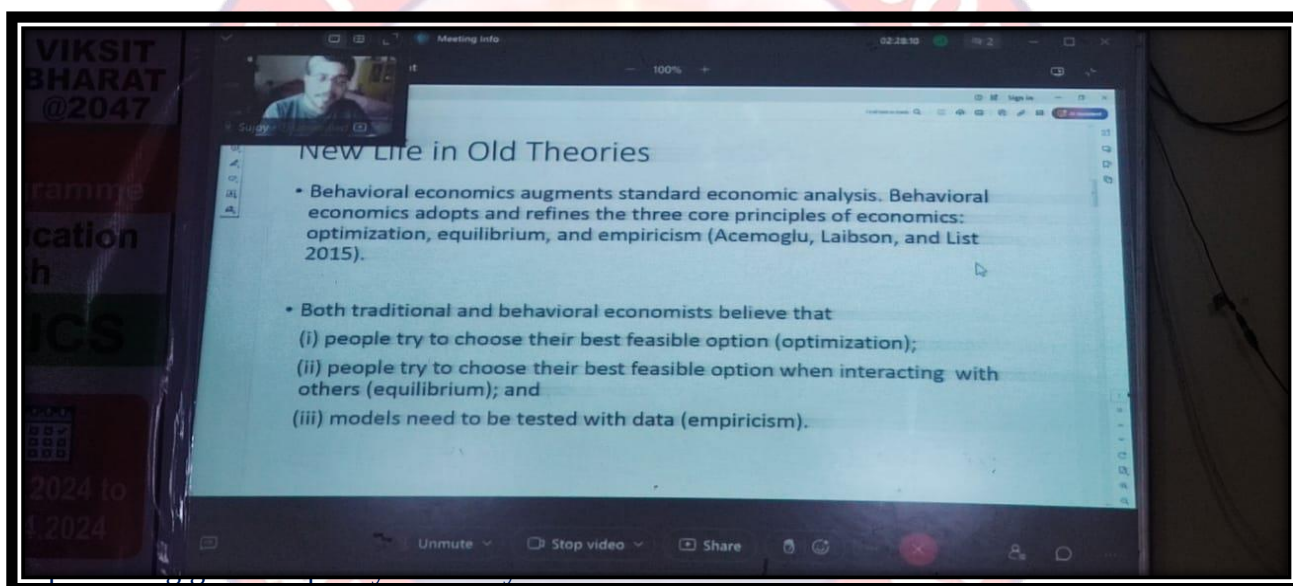
Day 5: 22.04.2024

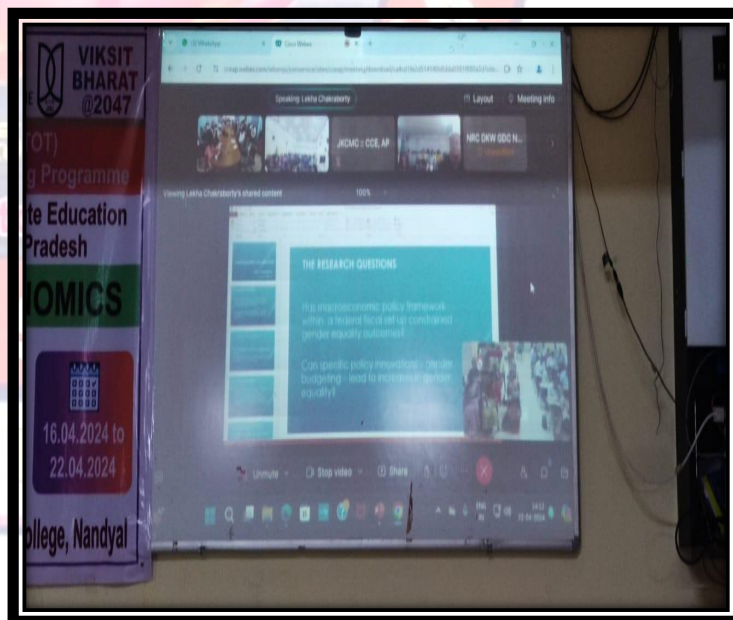
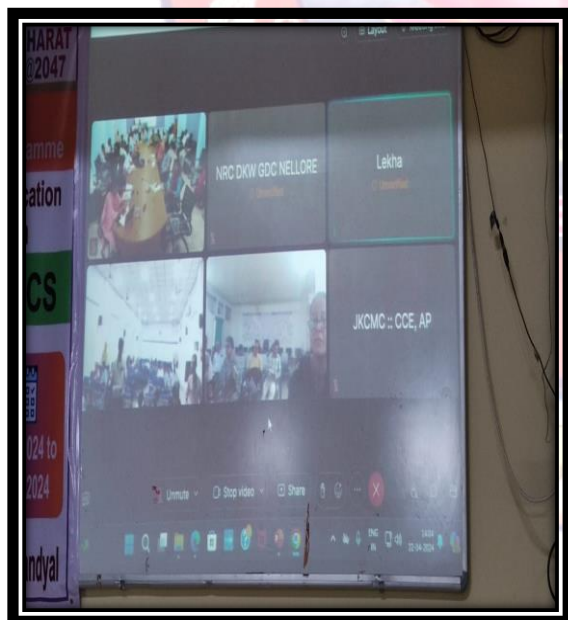
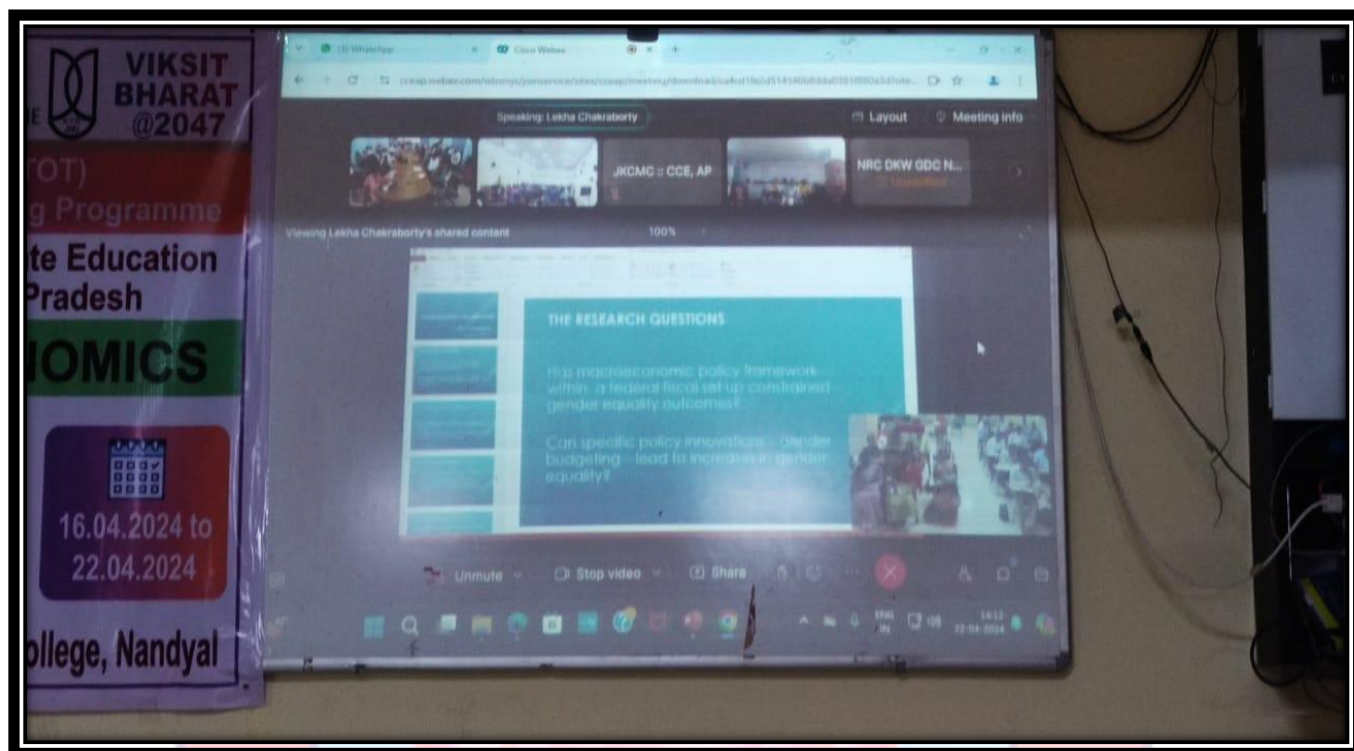
Session -2 - online Session

Topic: Foundations of Behavioral Economics

Resource Person: Prof. Sujay Chakravarty.

Prof. Sujay Chakravarty engaged the second session on the topic of Behavioral economics. It is a fascinating field that combines insights from psychology and economics to understand how real people make decisions. The class explores various biases, heuristics, and cognitive limitations that influence our choices. This concept can be applied to various real-world issues, such as marketing strategies, public policy, and organizational behavior.





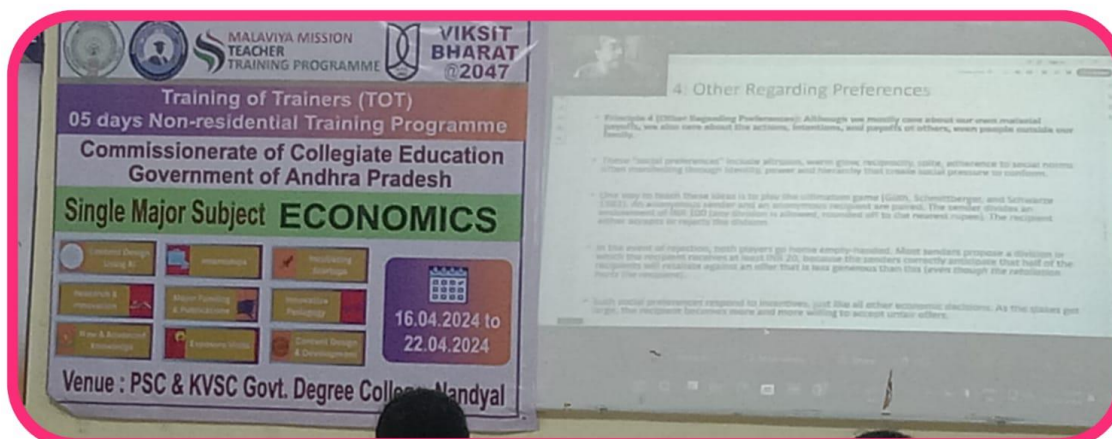
Day 5: 22.04.2024

Session -3 - online Session

Topic: Gender and Economic Development

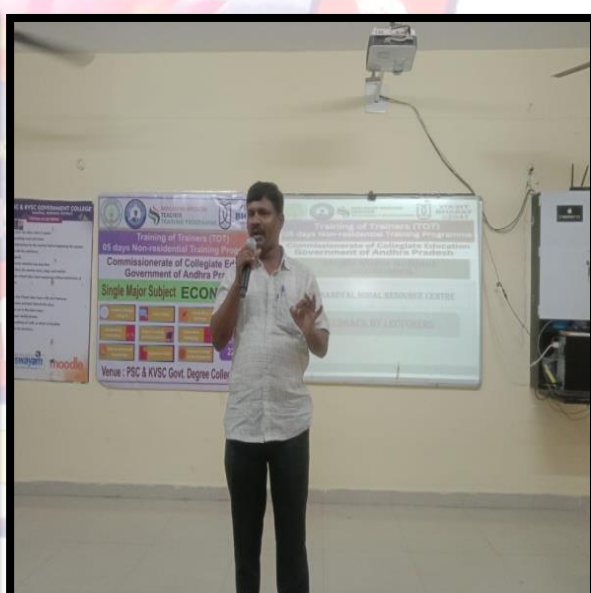
Resource Person: Prof. Lekha Chakraborty

Prof Chakraborty talked about the research question in Economics. She wondered whether Macroeconomic policy framework within a federal fiscal set up constrains gender equality outcomes. Another question was discussed whether policy innovations, gender budgeting lead to increase in gender equality. Aspects such as intertemporal budget constraints and human development financing, fiscal rules, maintaining threshold ratio of deficits, public expenditure compression than tax buoyancy route, unobserved variables such as treatment of output gap and price expectations were discussed.



Feedback by the Lecturers

Feedback from participants is essential to improving the quality of future programs. Some of the faculty from TOT participants Dr.Guru Mohan Reddy, Dr.B.Vijay Kumar, Prasanna Kumar, K.Siva Ram, shared their experience of 5 days sessions in TOT programme



Valedictory session

NRC Centre GDC Nandyal principal Dr.N.Shashikala garu spoke in valedictory session. She interacted with all participants and got feedback from them for improving future programmes. Some of the participants shared their experience. NRC coordinator, Dr.Parvathi, Key Resource Persons Dr.G.Vijaya Lakshmi Devi, D.Bala Narasimha and Lakshmi Narasamma spoke in this valedictory session.





సాక్షి

అధ్యాపకులకు శిక్షణ

నంద్యాల(న్యూటౌన్): స్థానిక ప్రభుత్వ డిగ్రీ కళాశాలలో సోమవారం కమిషనర్ కాలేజీ ఎడ్యుకేషన్ ఆధ్వర్యంలో ఐదు రోజుల పాటు శిక్షణలో భాగంగా సింగిల్ మేజర్ సిస్టమ్ ద్వారా ఎకనామిక్స్ సబ్జెక్టుపై శిక్షణ కార్యక్రమం నిర్వహించారు. కమిషనర్ ఆఫ్

కాలేజీయేట్ ఎడ్యుకేషన్ అధికారి డాక్టర్ పోలా భాస్కర్ మాట్లాడుతూ ఎకనామిక్స్ అధ్యాపకులకు పలు అంశాలపై శిక్షణ ఇచ్చారు. ఢిల్లీలో ప్రత్యక్ష శిక్షణ పొందిన డాక్టర్ జి.విజయలక్ష్మిదేవి, లక్ష్మినర్సమ్మ, బాలనరసింహుడు రీసోర్స్ పర్సన్లుగా వ్యవహరిస్తున్నారు. కర్నూలు, కడప జిల్లాల నుంచి 22 మంది అధ్యాపకులు పాల్గొన్నారు.

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GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION

Mangalagiri, Andhra Pradesh

5 DAY RESIDENTIAL TRAINING PROGRAMME FOR TEACHERS (ToT)

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. M. Guru Mohan Reddy, SKR&SKR GCWA, Kadapa. YSR DIST.

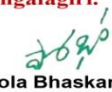
has participated in the “ 5 Day Residential Training of the Trainers Programme (ToT) “ on
Single Major Economics Subject from **16.04.2024 to 22.04.2024**

at **PSC & KVSC Govt. College, Nodal Resource Centre (NRC), Nandyal**

Organised by **Commissionerate of Collegiate Education, A.P., Mangalagiri.**



Principal,


Dr. Pola Bhaskar, I.A.S.
Commissioner of Collegiate Education.

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GOVERNMENT OF ANDHRA PRADESH
COMMISSIONERATE OF COLLEGIATE EDUCATION

Mangalagiri, Andhra Pradesh

5 DAY RESIDENTIAL TRAINING PROGRAMME FOR TEACHERS (ToT)

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. B.NAGENDRA, PSC & KVSC GOVERNMENT DEGREE COLLEGE, NANDYAL

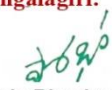
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