
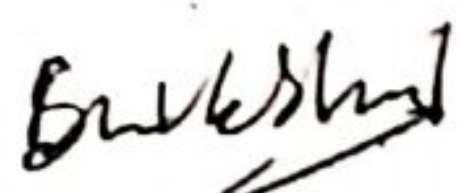


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Munasabpetta, Srikakulam-532401

**Report of Certificate / Add on Course
2019 – 2020**

| | | | | | | | | |
|---|--|--|-------------|-----|---|--------------|-----|--|
| Name of the Certificate / Add on Course | Hydro Power Energy Systems | | | | | | | |
| Name of Resource Person | Sri. Ch. Satyanarayana Lecturer Department of Physics Gayatri College of Science & Management Munasabpetta, Srikakulam | | | | | | | |
| Duration of Activity | 24/07/2019 To 07/08/2019 | | | | | | | |
| Class | II M.Sc. (Physics) | | | | | | | |
| Contact Hours/Schedule | 20 Hrs. | | | | | | | |
| Aim/Objective: <ul style="list-style-type: none"> Introduction of Hydro Power Energy Working Process Hydro Power Plants in India Elements of Hydro Electric Power Plant Classification Types of Turbines | | | | | | | | |
| Learning Outcomes: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Lower Order</td> <td style="width: 15%;">30%</td> <td> <ul style="list-style-type: none"> Understand the basics of Hydro Power Energy. Understand the importance Hydro Power Energy. </td> </tr> <tr> <td>Higher Order</td> <td>70%</td> <td> <ul style="list-style-type: none"> Understand the different Elements of Hydro Power Energy Systems and Technologies, Types of Turbines. Understand and study characteristics and cost of basic models of Hydro Power Energy Systems. </td> </tr> </table> | | | Lower Order | 30% | <ul style="list-style-type: none"> Understand the basics of Hydro Power Energy. Understand the importance Hydro Power Energy. | Higher Order | 70% | <ul style="list-style-type: none"> Understand the different Elements of Hydro Power Energy Systems and Technologies, Types of Turbines. Understand and study characteristics and cost of basic models of Hydro Power Energy Systems. |
| Lower Order | 30% | <ul style="list-style-type: none"> Understand the basics of Hydro Power Energy. Understand the importance Hydro Power Energy. | | | | | | |
| Higher Order | 70% | <ul style="list-style-type: none"> Understand the different Elements of Hydro Power Energy Systems and Technologies, Types of Turbines. Understand and study characteristics and cost of basic models of Hydro Power Energy Systems. | | | | | | |
| Course Content/Curriculum <ul style="list-style-type: none"> Introduction of Hydro Power Energy Working Process Hydro Power Plants in India Elements of Hydro Electric Power Plant Classification Types of Turbines Advantages and Disadvantages | | | | | | | | |
| Assessment Procedure <ul style="list-style-type: none"> MCQ Base Examination: 75% Viva Voice: 25% | | | | | | | | |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  H.O.D. Department of Physics </div> <div style="text-align: center;">  PRINCIPAL Gayatri College of Science & Management Munasabpetta-Srikakulam-532401 </div> </div> | | | | | | | | |

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Date: 10-07-2019

PROGRAM REPORT

Name of the Program: Certificate course on Vector Spaces

Date: 10-07-2019

Name of the Resource Person: Smt B. Aruna

Phone Number : 9160762085

Email ID: amabatiaruna26@gmail.com

Program Objectives:

1. Able to identify whether a class of objects is a vector spaces or not.
2. Able to derive the properties of vectors in vector space.
3. Find the Basis and Dimension of a Finite Dimensional Vector spaces.
4. Able to verify the vectors set is whether linearly independent or dependent.

Topics Covered:

1. Definition of Vector spaces and its Properties.
2. Vector addition and Scalar Multiplications.
3. Linear Independence and Linear Dependence of vectors.
4. Finite Dimensional Vector spaces.
5. Basis and Dimension of Vector spaces.

Outcomes:



1. Understand vector spaces both algebraically and graphically.
2. Understand Bases, Linear Independence and Linear span.
3. Enable to connect the ideas of basis and solution to system of equations.
4. Enable to connect ideas about row and column spaces of a matrix with bases.

Number of participants: 60

Name of the Co-ordinator: Smt P. Revathi



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2019 - 2020**

| | | |
|---|--|---|
| Name of the Certificate / Add on Course | ENERGY STORAGE DEVICES | |
| Name of Resource Person | Sri.P.V. RAMANA MURTY - Lecturer, Department of Physics Gayatri College of Science & Management Munasabpeta, Srikakulam. | |
| Duration of Activity | 25/07/2019 To 08/08/2019 | |
| Class | III B.Sc (MPC & MPCs) | |
| Contact Hours/Schedule | 20 Hours | |
| Aim/Objective: The aims of the course were to introduce Energy Storage Devices as solution to stabilize the uncertainty of Renewable energy systems. To discuss different types of energy storage devices and match them to storage types. | | |
| Learning Outcomes: | | |
| Lower Order | 30% | <ul style="list-style-type: none">• Understand the role of Energy Storage Devices• Understand the function and types of Energy Storage Devices |
| Higher Order | 70% | <ul style="list-style-type: none">• Understand the different types of Storage Systems and match them to Storage devices• To Study the characteristics of different types of energy storage devices |
| Course Content/Curriculum <ul style="list-style-type: none">• Introduction to Energy Storage Devices.• Energy Storage Devices as secondary storage for Renewable energy system• Role of Energy Storage Devices in achieving uninterrupted power supply• Types of Energy Storage Devices• Principle, working of different types of energy storage devices• Technology mapping of energy storage devices and energy systems.• Characteristics of different types of energy storage devices | | |
| Assessment Procedure <ul style="list-style-type: none">▪ MCQ Base Examination : 75%▪ Viva Voce: 25% | | |
| <div style="display: flex; justify-content: space-between;"><div style="text-align: center;"> H.O.D Department of Physics</div><div style="text-align: center;"> PRINCIPAL PRINCIPAL</div></div> | | |

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Munsabpeta, Srikakulam-532401

Munasabpeta,

Date: 09-08-2019

PROGRAM REPORT

Name of the event: A two week certificate course program on 'Tally'.

Dates: 25-07-2019 to 08-08-2019

Resource persons: Sri. N. Madhu

Lecturer in Department of Commerce and Management Studies,
Gayatri College of science and management, Munusabpeta.

Email id: mdh.nadiminti@gmail.com

Contact number: 9989105234

Name of the coordinator: Sri. S. Jagadeesh,

Lecturer in Department of Commerce and Management Studies,
Gayatri College of Science and Management, Munusabpeta.

Number students attended:

Venue: Computer lab

Objectives of the program:

- To impart knowledge regarding concepts of Financial Accounting.
- This course helps students to work with well-known accounting software i.e. Tally ERP.9.
- Create the knowledge about the Tally and its importance.
- To make students capable to create company, enter accounting voucher entries including advance voucher entries, reconcile bank statement, do accrual adjustments, and also print financial statements, etc. in Tally.

Topics covered:

- Introduction of the Tally and Tally screen.
- Creation of the company.
- Account masters.
- Creation/alteration of multiple ledgers.
- Creation of account vouchers.
- Creation of inventory masters.
- Purchase & sales procedures.
- Account reports.

Outcomes of the program:

- Student by their own can create company, enter accounting voucher entries including advance voucher entries, reconcile bank statements, do accrual adjustments, and also print financial statements, etc.
- Students will possess required skill and can also be employed as Tally data entry operator.

S. Jagadeesh
Program coordinator:





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Report Certificate / Add on Course

2019 - 2020

| | | |
|---|---|---|
| Name of the Certificate / Add on Course | Waste Water Management | |
| Name of Resource | Smt., T. Prasanthi Lecturer in Chemistry Gayatri College of Science & Management Munasabpeta, Srikakulam | |
| Duration of Activity | 25.07.2019 To 10.08.2019 | |
| Class | II M.Sc., Analytical Chemistry | |
| Contact Hours/Schedule | 30 Hours | |
| Aim/Objective: The Objective of this Study is to Control Waste Water Pollution by its its Management and Treatment | | |
| Learning Outcomes: | | |
| Lower Order | 60% | <ul style="list-style-type: none">• Understand the Role of Water in Human Life• Methods of Waste Water Treatment |
| Higher Order | 40% | <ul style="list-style-type: none">• Biological, Chemical and Physical Methods of Waste Water Treatment |
| Course Content/Curriculum <ul style="list-style-type: none">• Introduction to Waste Water Treatment• History• Importance of Waste Water Treatment• Waste Water Treatment Process, Systems and Technology• Applications• Conclusions | | |
| Assessment Procedure <ul style="list-style-type: none">• MCQ Base Examination: 75%• Viva Voice: 25% | | |


COORDINATOR


H.O.B. CHEMISTRY
Head of the Department of Chemistry
Gayatri College of Science & Management
Munasabpeta, Srikakulam



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Report Certificate / Add on Course

2019- 2020

| | | |
|---|--|---|
| Name of the Certificate / Add on Course | Determination of Extra Elements by Green Approach | |
| Name of Resource | Sri., K. SreeRamulu Lecturer in Chemistry Gayatri College of Science & Management Munasabpetta, Srikakulam. | |
| Duration of Activity | 25.07.2019 To 11.08.2019 | |
| Class | II M.Sc., Organic Chemistry | |
| Contact Hours/Schedule | 30 Hours | |
| Aim/Objective: The Objective of this Study were Determine the Extra Elements (N, O, X) in Different Organic Compounds. | | |
| Learning Outcomes: | | |
| Lower Order | 45 % | <ul style="list-style-type: none"> Knowing about Green Reagents Understand Usage of Green reagent in Organic Compound Analysis |
| Higher Order | 55 % | <ul style="list-style-type: none"> Use of Green reagents instead of Regular Synthetic reagents Understand Differentiation of Green reagents from Synthetic reagents |
| Course Content/Curriculum | | |
| <ul style="list-style-type: none"> Introduction to Green Chemistry Solvents Reactions of Green reagents Differences between Green reagents and Synthetic reagents Utilizations of Green reagents Procedures to Determination of Extra Elements by Green Approach Conclusions | | |
| Assessment Procedure | | |
| <ul style="list-style-type: none"> MCQ Base Examination: 75% Viva Voice: 25% | | |





H.O.D. CHEMISTRY

Head of the Department of Chemistry
Gayatri College of Science & Management
Munasabpetta, Srikakulam


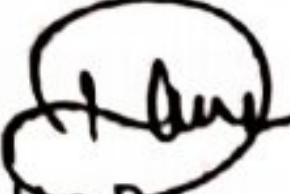

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Report of Certificate / Add on Course

| | | | |
|---|-----|--|--|
| Name of the Certificate / Add on Course | | Water Analysis | |
| Name of Resource Person | | Sri A.S.R. DHANVANTHRY | |
| Duration of Activity | | 1 Hour | |
| Class | | III CBZ | |
| Contact Hours/Schedule | | 14 Hours | |
| Aim/Objective: To assess the existing river quality | | | |
| Learning Outcomes: Awareness about pure and impure water | | | |
| Lower Order | 40% | | |
| Higher Order | 60% | | |
| Course Content/Curriculum * To know the physical chemical and Biological status of water resources * To identify the change in water quality * To formulate WQI for river health monitoring | | | |
| Assessment Procedure • Viva Voice: 100%. • | | | |
|  H.O.D Department of Biochemistry | |  PRINCIPAL PRINCIPAL Gayatri College of Science & Management Munasabpetta-Srikakulam-532401 | |

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Report of Certificate / Add on Course

| | | | |
|---|-----|---|--|
| Name of the Certificate / Add on Course | | Fermentation process | |
| Name of Resource Person | | Sri. V. Vijay Saradhi | |
| Duration of Activity | | 1 hour | |
| Class | | III CBBT | |
| Contact Hours/Schedule | | 14 hrs. | |
| Aim/Objective: To Aware students about fermentation and importance | | | |
| Learning Outcomes: Fermentation, types, uses in society | | | |
| Lower Order | 30% | | |
| Higher Order | 70% | | |
| Course Content/Curriculum Introduction Broth media preparation Enzymatic oxidation of leaf constituents Uses of fermentation products | | | |
| Assessment Procedure • Viva Voice: 100% • | | | |
|   H.O.D. Department of Biotechnology | |  PRINCIPAL GAYATRI COLLEGE OF SCIENCE & MANAGEMENT MUNASABPETA, SRIKAKULAM-532401 | |



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Report Certificate / Add on Course
2019 - 2020

| | | | |
|---|-----|--|--|
| Name of the Certificate / Add on Course | | BASIC ELECTRONICS | |
| Name of Resource | | Sri., P. SRINIVAS RAO Lecturer, Srikakulam. | |
| MONTH & YEAR | | JULY - 2019 | |
| Class | | B.Sc., MECs | |
| Contact Hours/Schedule | | 24 Hours | |
| Aim/Objective: This course provides the student with the fundamental skills to understand the basic of semiconductor and components like diode, transistor, FET, MOSFET and operational amplifier. | | | |
| Learning Outcomes: | | | |
| Lower Order | 35% | <ul style="list-style-type: none"> It will build mathematical and numerical background for design of electronics circuit & component value. | |
| Higher Order | 65% | <ul style="list-style-type: none"> An ability to design electronic circuits and conduct investigations, as well as to analyze and interpret data. | |
| Course Content/Curriculum <ul style="list-style-type: none"> • Introduction to Basic Electronics · • Voltage / Current / Power · • Resistor · • Capacitor · • Inductor · • Semiconductor · • Diode · • Transistor · • Integrated Circuit (IC) ... | | | |
| Assessment Procedure <ul style="list-style-type: none"> ▪ MCQ Base Examination: 75% ▪ Viva Voice: 25% | | | |

L. Chakraborty
COORDINATOR

[Signature]
PRINCIPAL

PRINCIPAL
Gayatri College of Science & Management
Munasabpetta-Srikakulam-532 401