



# ST. ANN'S COLLEGE FOR WOMEN

(A Catholic Christian Minority Institution Affiliated to Acharya Nagarjuna University)  
(Recognized the College Under Section 2(f) of the UGC Act. 1956 - New Delhi)

AMARAVATHI ROAD, GORANTLA, GUNTUR - 522 034. A.P.

## DEPARTMENT OF CHEMISTRY CERTIFICATE COURSE

St. Ann's College for Women /U.G Chemistry Dept/CERTIFICATE COURSE 22-23

### NOTICE

All the IV semester students of II B.Sc (MPC) Chemistry are informed that ADD ON COURSE on "Radioisotopes- Uses" classes for 30 hours has been scheduled to commence from 19<sup>th</sup> to 24<sup>th</sup> July 2023. The classes are conducted in Chemistry Lab of Annamma block. So, the interested students are informed to enroll their names on or before 15<sup>th</sup> July 2023.

Yours Faithfully,

To  
All teaching staff of chemistry  
Department for circulation  
Department notice board

PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

## Syllabus

1. Introduction to Radioactive elements, tracer elements, Isotops.
2. Radio active disintegration – alpha, beta, Gama emissions and stable nuclei
3. Electro Magnetic radiations – UV, IR, NMR, ESR ect..
4. Instrumentation
5. Applications of radio isotopes in industry.
6. Applications of radio isotopes in medicine
7. Applications of radio isotopes in agriculture.

### **Electromagnetic Radiations:**

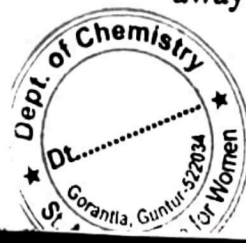
#### **Diagnostic radiopharmaceuticals**

Every organ in our bodies acts differently from a chemical point of view. Doctors and chemists have identified a number of chemicals which are absorbed by specific organs. The thyroid, for example, takes up iodine, whilst the brain consumes quantities of glucose. With this knowledge, radiopharmacists are able to attach various radioisotopes to biologically active substances. Once a radioactive form of one of these substances enters the body, it is incorporated into the normal biological processes and excreted in the usual ways.

Diagnostic radiopharmaceuticals can be used to examine blood flow to the brain, functioning of the liver, lungs, heart, or kidneys, to assess bone growth, and to confirm other diagnostic procedures. Another important use is to predict the effects of surgery and assess changes since treatment.

The amount of the radiopharmaceutical given to a patient is just sufficient to obtain the required information before its decay. The radiation dose received is medically insignificant. The patient experiences no discomfort during the test and after a short time there is no trace that the test was ever done. The non-invasive nature of this technology, together with the ability to observe an organ functioning from outside the body, makes this technique a powerful diagnostic tool.

A radioisotope used for diagnosis must emit gamma rays of sufficient energy to escape from the body and it must have a half-life short enough for it to decay away soon after imaging is completed.



*Bm*  
Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.



*De B*  
PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034

### Practical's Knowledge – Visit to diagnostic centres

- **Visit to diagnostic centres**


1. Thyroid Scam – Use of Iodine
2. Tracer Elements used in detection of disease – Technician 99

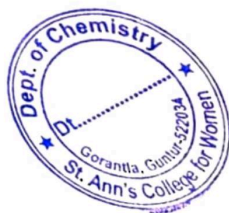
- **Visit to fertilisers store**

1. Isotopes Used in Agricultural fertilisers.
2. Use of Agriculture radioactive Isotopes – Pesticides
3. Radio Active traces from soil for plants uptake – Calcium

- **Practical Industrial Application –**

1. Pipe line lick location sodium24

  
Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.



  
PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



# ST.ANN'S COLLEGE FOR WOMEN

GORANTLA - GUNTUR

## DEPARTMENT OF CHEMISTRY

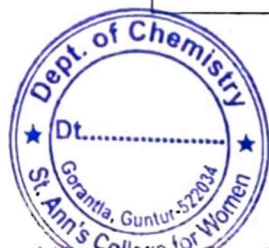
### ADD-ON COURSE

### RADIO ISOTOPES - USES IN INDUSTRY & MEDICINE

Attendance statement 2022-23

Dates of Course - 19<sup>th</sup> July to 24<sup>th</sup> July  
 Hours - 30 hrs  
 Class/Group - II MPC

S.No	Name of the Student	Hall ticket No	Dates & signatures					
			19 <sup>th</sup> June	20 <sup>th</sup> June	21 <sup>st</sup> July	22 <sup>nd</sup> July	23 <sup>rd</sup> July	24 <sup>th</sup> July
1.	A. Naga Srivalli	Y213158055	P	P	P	P	P	P
2.	Ch. Hadassa	Y213158056	P	P	P	P	P	P
3.	D. Mahima Rachel	Y213158057	P	P	P	P	P	P
4.	D. Sruthi	Y213158058	P	P	P	P	P	P
5.	D. Anuradha	Y213158059	P	P	P	P	P	P
6.	D. Kalyani	Y213158060	P	P	P	P	P	P
7.	G. kavya	Y213158061	P	P	P	P	P	P
8.	G. Swarna latha	Y213158062	P	P	P	P	P	P
9.	k. Pujitha	Y213158063	P	P	P	P	P	P
10.	K. H. Mary Jones	Y213158064	P	P	P	P	P	P
11.	K. Naga Nandhini	Y213158065	P	P	P	P	P	P
12.	M. Lavanya	Y213158066	P	P	P	P	P	P
13.	M. Preethi	Y213158069	P	P	P	P	P	P
14.	P. Triveni	Y213158070	P	P	P	P	P	P
15.	P. Harika	Y213158071	P	P	P	P	P	P
16.	R. Maina	Y213158072	P	P	P	P	P	P
17.	Sk. Naga Sadika	Y213158073	P	P	P	P	P	P
18.	Sk. Neha	Y213158074	P	P	P	P	P	P
19.	Sd. Suhana	Y213158075	P	P	P	P	P	P
20.	T. Gopika	Y213158076	P	P	P	P	P	P
21.	T. Likiitha Mary.	Y213158077	P	P	P	P	P	P.
22.								



*Bn*  
 Head of Dept. of Chemistry  
 St. Ann's College for Women  
 GORANTLA, GUNTUR-522034.



*jab*  
 PRINCIPAL  
 St. Ann's College for Women  
 GORANTLA, GUNTUR-522 034



# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that A. Nagasrivalli ..... of II - B.Sc. (MPC) .....

Regd.No.: Y213159055 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN "INDUSTRY AGRICULTURES AND MEDICINE"**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

at St. Ann's College for Women. Duration of the Course : 30 Hours

Am  
Co-ordinator

Bm  
HOD

Dr. Sr. Fatima Rani.P  
Principal

ST. Ann's College for Women,  
GORANTLA, GUNTUR.



# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... G. Kavya ..... of ..... II - B.Sc. [MPC] .....

Regd.No.: ..... Y213158061 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

at St. Ann's College for Women. Duration of the Course : 30 Hours

[Signature]  
Co-ordinator

[Signature]  
HOD

[Signature]  
Dr. Sr. Fatima Rani.P  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... G. Swamalatha ..... of II-B.Sc. [MPC] .....

Regd.No.: ..... Y213158062 ..... has Successfully completed the ADD ON CERTIFICATE


Course On **RADIOISOTOPES -USES IN “ INDUSTRY AGRICULTURES AND MEDICINE ”**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. Sr. Patima Rani.P  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... M. Preethi ..... of ..... II-B.Sc. [MPC] .....

Regd.No.: ..... Y213158069 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN "INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

[Signature]  
Co-ordinator

[Signature]  
HOD

[Signature]  
Dr. Sr. Fatima Rani.P

Principal

St. Ann's College for Women  
GORANTLA, GUNTUR







# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION


This is to Certify that P. Triveni of II-B.Sc. [MPC]

Regd.No. Y213158070 has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. Sr. Lucia K. P.  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... P. Haxika ..... of ..... II. - B: Sc. [MPC]

Regd.No.: ..... Y213158071 ..... has Succesfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN “ INDUSTRY AGRICULTURES AND MEDICINE ”**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

.....  
Co-ordinator

.....  
HOD

.....  
Dr. Sr. Fatima Rani.P  
Principal





# ST.ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... *Sk. Naga Sadhika* ..... of *D - B: Sc [MPC]* .....

Regd.No.: ..... *Y213158073* ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN “ INDUSTRY AGRICULTURES AND MEDICINE ”**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

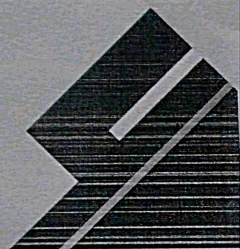
at St. Ann's College for Women. Duration of the Course : 30 Hours

*Ans*  
Co-ordinator

*Pon*  
HOD

*Dr. Sr. Fatima Rani.P*  
Dr. Sr. Fatima Rani.P

Principal  
St. Ann's College for Women  
GORANTLA, GUNTUR-34.





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION


This is to Certify that ..... D. Anuradha ..... of II-B.Sc. [MPC] .....

Regd.No.:..... Y213158059 .....has Succesfully completed the ADD ON CERTIFICATE


Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

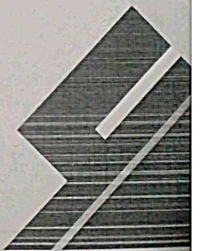
at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. Sr. Fatima Rani.P  
Principal

St. Ann's College for Women,  
GORANTLA, GUNTUR.





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that D. Kalyani .....of IT-B.Sc. [MPC].....

Regd.No.: Y213156060.....has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN "INDUSTRY AGRICULTURES AND MEDICINE"**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

[Signature]  
Co-ordinator

[Signature]  
HOD

[Signature]  
Dr. St. Fatima Rani.P  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... *D. Sauthi* ..... of *II-B.Sc. [MPC]* .....

Regd.No.: ..... *Y213158058* ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES - USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

at St. Ann's College for Women. Duration of the Course : 30 Hours

*[Signature]*  
Co-ordinator

*[Signature]*  
HOD

*[Signature]*  
Dr. Sr. Fatima Rani.P

Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that D. Mahima Rachel of II-B:Sc. [MPC]

Regd.No.: Y213158057 has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

Co-ordinator

HOD

Dr. Sr. Fatima Rani.P

Principal

St. Ann's College for Women  
GORANTLA, GUNTUR-34.





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... Ch. Hadassa ..... of ..... II-B.Sc. [M.P.C.]

Regd.No.: ..... V213158056 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

Rohana  
Co-ordinator

Ron  
HOD

Dr. Sr. Fatima Rani.P  
Principal

ST. ANN'S COLLEGE FOR WOMEN  
GORANTLA, GUNTUR







# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... M. Lavanya ..... of ..... II-B.Sc. [MPC] .....

Regd.No.: ..... Y213158066 ..... has Successfully completed the ADD ON CERTIFICATE

Course On RADIOISOTOPES -USES IN "INDUSTRY AGRICULTURES AND MEDICINE"

Organized by the Department of Chemistry conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

.....  
Co-ordinator

.....  
HOD

.....  
Dr. Sr. Fatima Rani P

Principal

St. Ann's College for Women  
GORANTLA - GUNTUR





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... K. Hadassah Mary Jones ..... of II - B.Sc. [MPC] .....

Regd.No.: ..... Y213158064 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. Sr. Fatima Rani.P

Principal

ST. ANN'S COLLEGE FOR WOMEN  
GORANTLA, GUNTUR-34.





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

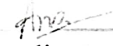
This is to Certify that .....K. Naga Nardhini.....of.....II-B.Sc. [MPC]

Regd.No.:.....Y213158065.....has Successfully completed the ADD ON CERTIFICATE

Course On RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "

Organized by the Department of Chemistry conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. Sr. Fatima Rami.P

Principal

St. Ann's College for Women  
GORANTLA, GUNTUR





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... K. Poojitba ..... of ..... D - B.Sc. [MPC] .....

Regd.No.: ..... Y213158063 ..... has Successfully completed the ADD ON CERTIFICATE


Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. St. Fatima Rani.P  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... T. Likhitha Mary ..... of D-B.Sc. [MPC] .....

Regd.No.: ..... Y213158077 ..... has Successfully completed the ADD ON CERTIFICATE

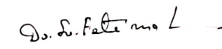
Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dr. St. Fatima Rani P  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University &  
Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... T. Gopika ..... of IT-B.sc. [MPC] .....

Regd.No.: ..... Y213158076 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN “ INDUSTRY AGRICULTURES AND MEDICINE ”**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

H.S.  
Co-ordinator

H.S.  
HOD

H.S.  
Dr. Sr. Fatima Rani P  
Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION


This is to Certify that .....SD.: Suhana..... of ..... II - B.Sc. [MPC].....

Regd.No.: ..... Y213158075..... has Successfully completed the ADD ON CERTIFICATE

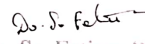
Course On **RADIOISOTOPES -USES IN " INDUSTRY AGRICULTURES AND MEDICINE "**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023,

at St. Ann's College for Women. Duration of the Course : 30 Hours

  
Co-ordinator

  
HOD

  
Dt. St. Fatima Kam.P

Principal





# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... Sk. Neha ..... of ..... II-B.Sc. [MPC]

Regd.No.: ..... Y213158074 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN "INDUSTRY AGRICULTURES AND MEDICINE"**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

[Signature]  
Co-ordinator

[Signature]  
HOD

[Signature]  
Dr. Sr. Fatima Rani P  
Principal







# ST. ANN'S COLLEGE FOR WOMEN

GORANTLA, GUNTUR-34.

(A Catholic Christian Minority Institution, Affiliated to Acharya Nagarjuna University & Recognized to College Under Section 2 (F) of the UGC Act, 1956-New Delhi).



## CERTIFICATE OF COMPLETION

This is to Certify that ..... R. Maina ..... of ..... II-B.Sc. [MP&T] .....

Regd.No.: ..... Y213158072 ..... has Successfully completed the ADD ON CERTIFICATE

Course On **RADIOISOTOPES -USES IN “ INDUSTRY AGRICULTURES AND MEDICINE ”**

Organized by the **Department of Chemistry** conducted from Date : 19<sup>th</sup> July 2023 to 24<sup>th</sup> July 2023.

at St. Ann's College for Women. Duration of the Course : 30 Hours

.....  
Co-ordinator

.....  
HOD

.....  
Dr. St. Fatima Rami P  
Principal

