



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.

Date: 09-03-2023

ADMISSION NOTICE

ADD-ON CERTIFICATE COURSE : 2022 - 2023

The Department of Physics proposes to enroll new batch for Add-on Certificate course in "MATERIALS SCIENCE". This Program is for the students of III Year B.Sc – MPCs and MPC students of our college. The course will commence from 20th March, 2023. Details of the course are:

No. of Seats available : 35

Venue for Registration : Department of physics – Lab

Period of Course : 20th March, 2023 to 29th March, 2023

Duration of the Course : 36 Hours

Time : 9.00 am to 11.00 am and 1.00 pm to 3.00 pm

Mode of Teaching : Offline

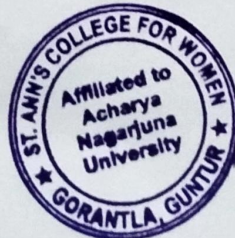
Course Co-ordinator(s) : Mr. Ch. Rama Rao.

Last date for Registration : 18th March, 2023.

→ A Minimum 80% attendance and 70% marks in Final assessment conducted by the Department are mandatory requirements for obtaining the certificate.

→ Admissions are done on the basis of First Come and First Serve and Fee is not refundable.

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



Dr. S. Patilma Raju P
9/3/23
PRINCIPAL
St. Ann's College for Women
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ADD-ON CERTIFICATE COURSE

Domain Subject : PHYSICS

Topic : " MATERIALS SCIENCE".

Number of Hours : 36

Name of the Course	Topic	Theory Hours	Practical Hours	Total Number of Hours
Add-on Certificate Course	Materials Science	30	6	36

Course Objectives:

To provide students a fundamental understanding of electrical, magnetic and optical properties of materials.

To apply those fundamentals for selecting and developing materials for different engineering applications.

Learning Outcomes:

After learning this Add-on Certificate Course, the student will be able to...

1. Classify engineering materials and apply its knowledge to select suitable materials for specific applications.
2. Acquire a sound understanding of crystalline and non-crystalline structures through theoretical and practical sessions.
3. Analyse deformations behavior and strengthening mechanisms relating to this structure and properties of materials clearly.
4. Discuss the properties and the applications of non-ferrous metals and non-metallic materials.
5. Explain the mechanism and types of corrosion in metals and select the appropriate corrosion protection methods.

SYLLABUS: -

Theory:

UNIT-I:

(10 HRS)

1. Materials and Crystal Bonding : Materials ,classification, crystalline , Amorphous Glasses; Metals ,Alloys, Semi conductors, Polymers, Ceramics, Plastics, Bio-materials, Composites, Bulk and nanomaterials.

UNIT-II:

(10 HRS)

2. Defects and Diffusion in Materials: Introduction- Types of defects-Point defects-Line defects-Surface defects-Volume defects-Production and removal of defects-Deformation- irradiation- quenching- annealing.

UNIT- III:

(10 HRS)

3. Magnetic Behaviour of Materials: Different mechanical properties of engineering materials - Creep- Fracture – Technological properties – Factors affecting mechanical properties of a material. Magnetic materials-Dia, Para, Ferri and Ferro magnetic materials.Discussion of B-H curve.Hysterisis and energy loss.

Practical/Lab :

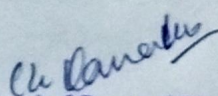
1. Study the Hysteresis loop of a Ferroelectric crystal.
2. Study the B-H curve of 'Fe'using solenoid and determine the energy loss from hysteresis.

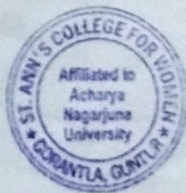
Text Books:

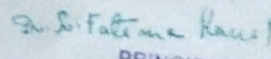
1. Materials Science, Unified Physics.
2. Material Science and Engineering ,R.k.Rajput.

References:

1. Materials Science by M. Armugam, Andhra Pradesh, 1990, Kumbakonam.
2. Materials Science and Engineering, V. Raghavan.


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ADD- ON CERTIFICATE COURSE ON MATERIAL SCIENCE

DEPARTMENT OF PHYSICS

YEAR AND GROUP.III B.SC- MPCS

DURATION OF THE CORSE:32 HRS

ATTENDANCE REPORT

S.N O	REG NO.	NAME OF THE STUDENT	20/0 3/23	21/0 3/23	22/0 3/23	23/0 3/23	24/03/ 23	25/03/ 23	27/03/ 23	28/03/ 23	29/03/ 23	% OF ATTENDA NCE	SIGNATURE OF THE STUDENT
1	Y203158091	BHIMAVARAPU KIRANMAI	X	ab	X	X	X	X	X	X	X	88%	B.Kiranmai
2	Y203158093	BODA NAGALAKSHMI	X	X	X	X	X	X	ab	X	X	88%	B.Nagalakshmi
3	Y203158094	BOKINALA ASA JYOTHI	X	X	X	ab	X	ab	X	X	X	77%	B.Asa Jyothi
4	Y203158102	DAINABOINA THOJJA KIRANMAI	X	X	X	X	X	X	X	X	X	100%	D.Thojja Kiranmai
5	Y203158105	DOSAPATI SRIJA	X	X	X	X	X	X	X	X	ab	88%	D.Srija
6	Y203158106	GANGADHARA PAVANI	X	X	X	X	X	ab	X	X	X	100%	G.Pavani
7	Y203158107	GANITHI CHANDRIKA	X	X	X	X	X	X	X	X	X	100%	G.chandrika
8	Y203158115	KAMATHAM RAMA DEVI	X	ab	X	X	X	X	X	X	X	88%	K.Ramadevi
9	Y203158117	KAMEPALLI TEJASWINI	X	X	X	X	X	X	X	X	X	100%	k.tejaswini
10	Y203158118	KARLA SIRISHA	X	X	X	X	X	X	X	X	X	100%	K.Sirisha
11	Y203158120	KAVILA RAMYA	X	ab	X	X	X	ab	X	X	X	77%	K.Ramyaa
12	Y203158127	KUKATLAPALLI KRUPA	X	X	X	X	X	X	X	X	X	100%	K.krupa
13	Y203158130	KURAPATI SWAPNA	X	X	X	X	X	X	X	X	X	100%	k.swapna
14	Y203158133	MAREPALLI NANDINI	X	X	X	X	ab	X	X	X	X	88%	M-Nandini
15	Y203158135	MEDA KOTESWARAMMA	X	X	X	X	X	X	X	X	X	100%	M.koteswaramma
16	Y203158136	MEKKA GEETHIKA	X	X	X	X	X	X	X	X	X	100%	M.G.Rk
17	Y203158137	MORRI TRIVENI	X	X	X	ab	X	X	X	X	X	88%	M.Triveni
18	Y203158140	NAGUBAMU VENNELA	X	X	X	X	X	X	X	ab	X	88%	N.Vennela
19	Y203158141	NESSU MERY	X	X	X	X	X	X	X	X	X	100%	N.Mery
20	Y203158144	PEDDETI GRESHIYA RANI	ab	X	X	X	X	X	X	X	X	88%	P.GreshiyaRani

21	Y203158146	PYERDHA LEKHA	X	X	X	X	ab	X	X	X	X	88%	Lekha Lekha
22	Y203158147	RAPUTHRA BHARATI BAI	X	X	X	X	X	X	ab	X	X	88%	R. Bharathi Bai
23	Y203158152	SHAIK DAYAN BEGUM	X	X	X	ab	X	X	X	X	X	88%	Sk. Dayana Begum
24	Y203158153	SHAIK FARZANA	X	X	X	X	X	X	X	ab	X	88%	Sk. Farzana
25	Y203158154	SHAIK HANEEFA	X	X	X	X	X	X	X	X	X	100%	Sk. Haneefa
26	Y203158156	SHAIK RAMJANBI	X	ab	X	X	X	X	X	X	X	88%	Sk. Ramjanbi
27	Y203158158	TADIBOINA SRI LAKSHMI	X	X	X	X	X	X	X	X	X	100%	T. Sri Lakshmi
28	Y203158159	TAMANAM MALATHI	X	X	X	X	X	X	X	X	X	100%	Sk. Haneefa
29	Y203158161	TELLA GORLA AKHILA	X	X	X	ab	X	X	X	X	X	88%	T. AKHILA
30	Y203158162	THATITHOTA JAYA	X	X	X	X	X	X	X	X	X	100%	T. Jaya
31	Y203158164	UNGUTURU APARNA	X	X	X	X	X	X	ab	X	X	88%	U. Aparna
32	Y203158166	VALIVETI SUDHA	X	X	X	X	X	X	X	X	X	100%	V. Sudha
33	Y203158169	VASA ANITHA	ab	X	X	X	X	X	X	X	X	88%	Vasa Anitha
34	Y203158065	DUGGI SARASWATHI	X	X	X	X	X	X	X	X	X	100%	D. Sara Swathi
35	Y203158069	KANDULWARI BHAGYA REKHA	X	X	X	X	X	X	X	X	X	100%	K. Bhagya Rekha

S. K. Ravathi
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D. S. Fatima Rami P
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CERTIFICATE OF COMPLETION

This is to Certify that MISS RAPUTHRA BHARATI BAI.....of III BSc (MPCs).....

Regd.No.: Y203158147.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On “ **MATERIALS SCIENCE** ” Organized by the **Department of Physics** conducted from
20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Anuradha

Co-ordinator

Ch. Anuradha

HOD

Jo
B. L.
PRINCIPAL
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Principal
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GORANTLA, GUNTUR-522-034





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CERTIFICATE OF COMPLETION

This is to Certify that MISS SHAIK DAYAN BEGUM of III BSc (MPCs)

Regd.No.: Y203158152 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On “ **MATERIALS SCIENCE** ” Organized by the **Department of Physics** conducted from

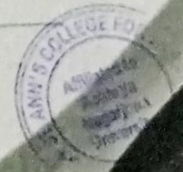
20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Sarada
Co-ordinator

Ch. Sarada
HOD

Dr. L. P.
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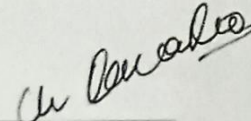
This is to Certify that MISS KARLA SIRISHA of III BSC (MPCs)

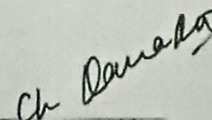
Regd.No.: Y&0315&11& has Successfully completed the **ADD-ON CERTIFICATE COURSE**

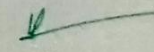
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Co-ordinator


HOD


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This is to Certify that MISS NAGUBAMU VENNELA of III BSC (MPCs)

Regd.No.: Y203158140 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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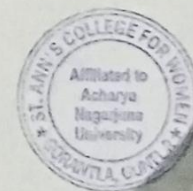
20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Co-ordinator

HOD

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CERTIFICATE OF COMPLETION

This is to Certify that Miss NESSU MERY.....of III Bsc (MPCs).....

Regd.No.: Y203158141.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Ch. Anuradha
Co-ordinator

Ch. Anuradha
HOD

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CERTIFICATE OF COMPLETION

This is to Certify that MES MORRI TRIVENI.....of III BSC (MPCs)

Regd.No.: Y203158137.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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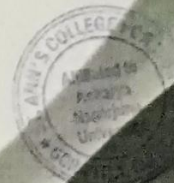
20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Durga Rao
Co-ordinator

Ch. Sarada
HOD

54
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CERTIFICATE OF COMPLETION

This is to Certify that MISS MEKKA GEETHIKA of III BSC (MPCs)

Regd.No.: Y203158136 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Parvathi
Co-ordinator

Ch. Parvathi
HOD

P. ...
PRINCIPAL

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PRINCIPAL



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This is to Certify that MISSMEDA KOTESWARAMMA of III BSC (MPCs)

Regd.No.: Y203158135 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On “ **MATERIALS SCIENCE** ” Organized by the **Department of Physics** conducted from

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Duration of the Course : 36 Hours

Ch. Danamma

Co-ordinator

Ch. Danamma

HOD

[Signature]
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CERTIFICATE OF COMPLETION

This is to Certify that MISS MAREPALLI NANDINI of III BSc (MPCs)

Regd.No.: Y203158133.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Ch. Anuradha

Co-ordinator

Ch. Anuradha

HOD

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CERTIFICATE OF COMPLETION

This is to Certify that MISS KURAPATI SWAPNA of III BSC (MPCS)

Regd.No.: Y203158130 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Co-ordinator

HOD

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CERTIFICATE OF COMPLETION

This is to Certify that MISS KUKATLAPALLI KRUPA of III BSc (MPCs)

Regd.No.: Y203158127 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Ch. Ramakrishna

Co-ordinator

Ch. Ramakrishna

HOD

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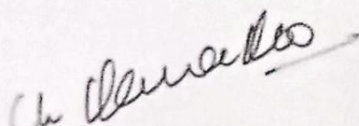
This is to Certify that MISS KAMEPALLI TEJASWINI of II BSC (MPCs)

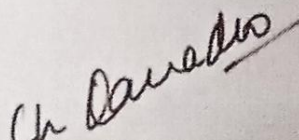
Regd.No.: Y2D315811 has Successfully completed the **ADD-ON CERTIFICATE COURSE**



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Duration of the Course : 36 Hours


Co-ordinator


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CERTIFICATE OF COMPLETION

This is to Certify that MISS KAMATHAM RAMADEVI of III BSC (MPCs)

Regd.No.: Y203158115 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Rama Devi

Co-ordinator

Ch. Rama Devi

HOD

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CERTIFICATE OF COMPLETION

This is to Certify that MISS GANITHI CHANDRIKA of III BSC (MPCS)

Regd.No.: Y203158107 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Co-ordinator

Ch. Ravathi

HOD

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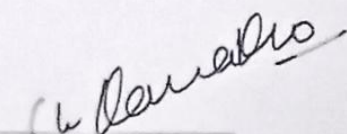
This is to Certify that MISS GANGADHARA PAVANI of III BSC (MPCs)

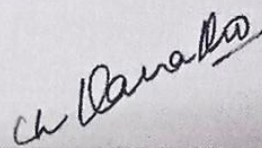
Regd.No.: Y203158106 has Successfully completed the **ADD-ON CERTIFICATE COURSE**


On **“ MATERIALS SCIENCE ”** Organized by the **Department of Physics** conducted from

20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours


Co-ordinator


HOD


Do. S. FL
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CERTIFICATE OF COMPLETION

This is to Certify that MISS KAVILA RAMYA of III BSC (MPCs)

Regd.No.: Y203158120 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On “ **MATERIALS SCIENCE** ” Organized by the **Department of Physics** conducted from

20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch Venkatesh

Co-ordinator

Ch Venkatesh

HOD

[Signature]
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CERTIFICATE OF COMPLETION

This is to Certify that MISS DOSAPATI SRIJA of III BSC (MPCs)

Regd.No.: Y203158105 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On **“ MATERIALS SCIENCE ”** Organized by the **Department of Physics** conducted from

20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Sarvesh

Co-ordinator

Ch. Sarvesh

HOD

[Signature]

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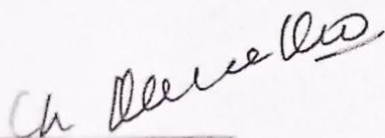
This is to Certify that MISS KANDULWARI BHAGYA REKHA.....of III BSC (MPCs).....


Regd.No.: Y203158069.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

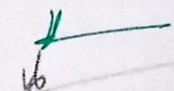
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Duration of the Course : 36 Hours


Co-ordinator


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CERTIFICATE OF COMPLETION

This is to Certify that MISS DUGGI SARASWATHI..... of III BSC (MPCS).....

Regd.No.: Y203158065.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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CERTIFICATE OF COMPLETION

This is to Certify that MISS VASA ANITHA of III BSC (MPCs)

Regd.No.: Y203158169 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

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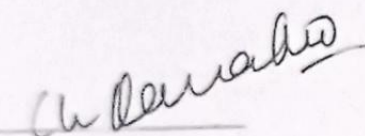
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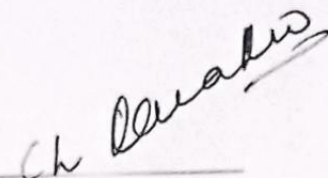
This is to Certify that MISS VALIVETI SUDHA..... of III BSc (MPCs).....


Regd.No.: Y203158166..... has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours


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This is to Certify that Mrs. UNGUTURU APARNA of III BSC (MPCs)

Regd.No.: Y203158164 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Ch. Saravali
Co-ordinator

Ch. Saravali
HOD

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



PRINCIPAL



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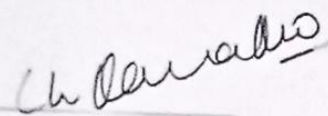
This is to Certify that MISS TELLA GORLA AKHILA of III BSC (MPCs)

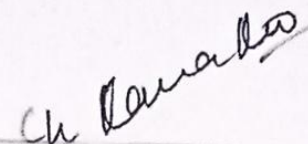
Regd.No.: Y203158161 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

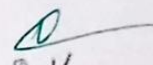
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Duration of the Course : 36 Hours


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This is to Certify that MISS TAMANAM MALATHI.....of III BSC (MPCs).....

Regd.No.: Y203158159.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Ch Danabo

Co-ordinator

Ch Danabo

HOD

D.A.
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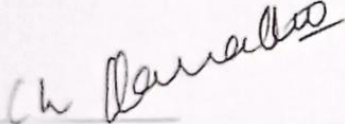
This is to Certify that Miss TADI BOINA SRI LAKSHMI..... of III BSc (MPCS).....

Regd.No.: Y203158158..... has Successfully completed the **ADD-ON CERTIFICATE COURSE**

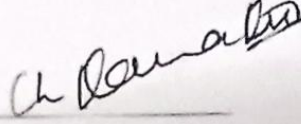
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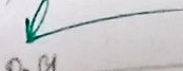
Duration of the Course : 36 Hours



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CERTIFICATE OF COMPLETION

This is to Certify that Miss SHAIK FARZANA of III BSc (MPCs)

Regd.No.: Y203158153 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On **“ MATERIALS SCIENCE ”** Organized by the **Department of Physics** conducted from

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Duration of the Course : 36 Hours

Ch. Venkatesh

Co-ordinator

Ch. Venkatesh

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B. H.
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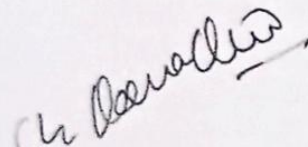
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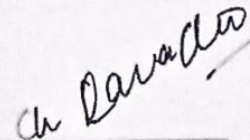
This is to Certify that ...MISS DAINA BOINA THOJA KIRANMAI..... of III BSC (MPCs).....


Regd.No.: Y203158102..... has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On **“ MATERIALS SCIENCE ”** Organized by the **Department of Physics** conducted from
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CERTIFICATE OF COMPLETION

This is to Certify that MISS BOKINALA ASA JYOTHI.....of III BSc (MPCs).....

Regd.No.: Y203158094.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On “ **MATERIALS SCIENCE** ” Organized by the **Department of Physics** conducted from

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Duration of the Course : 36 Hours

Ch. Dhanalakshmi

Co-ordinator

Ch. Dhanalakshmi

HOD

D. Lakshmi
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CERTIFICATE OF COMPLETION

This is to Certify that MISS BHIMAVARAPU KIRANMAI of III BSc (MPC'S)

Regd.No.: Y&03158091.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Duration of the Course : 36 Hours

Ch. Dhanalakshmi
Co-ordinator

Ch. Dhanalakshmi
HOD

Dr. H. ...
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Principal

PRINCIPAL
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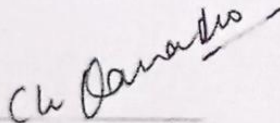
This is to Certify that MISS BODA NAGALAKSHMI of III BSC (MPCs)

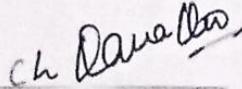
Regd.No.: Y203158093 has Successfully completed the **ADD-ON CERTIFICATE COURSE**



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This is to Certify that MISS SHAIK RAMJANBI.....of III BSC (MPCs).....

Regd.No.: Ya03158156.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

On **“ MATERIALS SCIENCE ”** Organized by the **Department of Physics** conducted from

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Duration of the Course : 36 Hours

Ch. Anuradha

Co-ordinator

Ch. Anuradha

HOD

Dr. R. Prasad
PRINCIPAL

St. Ann's College for Women
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This is to Certify that Miss SHAIK HANEEFA.....of III BSC (MPCs).....

Regd.No.: Y203158154.....has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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Ch Damalao

Co-ordinator

Ch Damalao

HOD

Ch

Ch

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This is to Certify that Miss THATI THOTA JAYA of III BSC (MPCs)

Regd.No.: Y203158162 has Successfully completed the **ADD-ON CERTIFICATE COURSE**

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20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

Duration of the Course : 36 Hours

Ch. Sarada

Co-ordinator

Ch. Sarada

HOD

[Signature]
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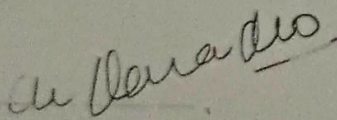
This is to Certify that MISS PEDDETI GRESHIYA RANI of III BSC (MPCS)

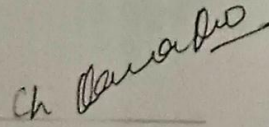
Regd.No.: Y203158144 has Successfully completed the **ADD-ON CERTIFICATE COURSE**


On " **MATERIALS SCIENCE** " Organized by the Department of Physics conducted from

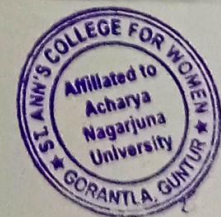
20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

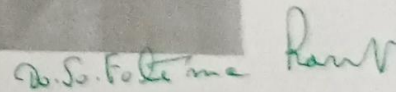
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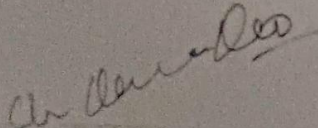
This is to Certify that Miss PYERDHA LEKHA of III BSc (MPCs)

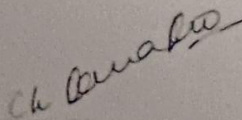
Regd.No.: Y203158146 has Successfully completed the ADD-ON CERTIFICATE COURSE

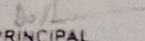
On " MATERIALS SCIENCE " Organized by the Department of Physics conducted from

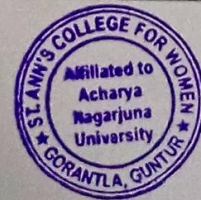
20th March 2023 to 29th March, 2023, at St. Ann's College for Women.

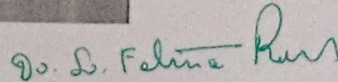
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Co-ordinator


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