

STARTED BATCH IN CERTIFICATE COURSE – 2021



CERTIFICATE COURSE

NANO BIOTECHNOLOGY

----- Organized by -----

Department of Chemistry (PG),

Hindu College, Market Centre

Guntur - 522003

S.NO	Name of the certificate course	Academic Year	From	To
1.	Nano Biotechnology	2021-2022	02-01-2021	12-02-2021

NANO BIOTECHNOLOGY

SYLLABUS

COURSE OUTLINE:

One of major applications of nano science is in biotechnology field. Since nanotechnology attracts students from various disciplines, a single course which starts by sensitizing students from a varied background about the biological/biotechnological basics and culminates into modern day applications of nano science in biotechnology field will be highly useful. This course will act as a bridge between students from non-biology course at all levels.

COURSE DETAILS:

S.NO	TOPIC	NO OF HOURS
1	Basics of biology - cell, organelles and nucleic acids as genetic material.	04
2	Bio macromolecules - Carbohydrates, lipids, proteins and Nucleic acids.	04
3	Nanomaterial in biotechnology - nanoparticles, quantum dots, nanotubes and nanowires etc.	02
4	Biosensors ; different classes - molecular recognition elements, transducing elements	04
5	Applications of molecular recognition elements in nano sensing of different analytes	02
6	Application of various transducing elements as part of nano biosensors.	02
7	Biological nanoparticles production - plants and microbial.	04
8	Nano biotechnological applications in health and disease - infectious and chronic.	04
9	Nano biotechnological applications in Environment and food - detection and mitigation.	04
	Total	30

REFERENCES:

9. Nanobiotechnology: Concepts, Applications and Perspectives (2004), Christof M. Niemeyer (Editor), Chad A. Mirkin (Editor), Wiley VCH.
 10. Nanobiotechnology - II more concepts and applications.(2007) - Chad A Mirkin and Christof M. Niemeyer (Eds), Wiley VCH.
- Nanotechnology in Biology and Medicine: Methods, Devices, and Applications

CERTIFICATE COURSE

Nano Biotechnology

Model Question Paper

Time : 2Hrs

Max.Marks: 50

Answer any Three of the following

3x10 = 50M

45. Write a note on Nanomaterial's used in Biotechnology?
46. Explain Nano biotechnological applications in Health and disease – infectious and chronic?
47. Write The Biological Nanoparticles production from plants?
48. Write a note on bio macromolecules?
49. Explain in detail about Nano biotechnological applications in Environment?

Answer any Three of the following

4x5 = 20M

50. Write a note on nucleic acids as genetics materials?
51. Explain quantum dots?
52. What are Nanotubes & Nanowires?
53. Nano biosensors?
54. Applications of Nano biotechnology in Food?
55. Write a note on Carbohydrates?







Ph: 0863-2220134
2227649

HINDU COLLEGE, GUNTUR – 522 003

(Re-accredited by NAAC as Grade 'A')

Dt: 28-01-2021.

From:
Dr.E.H.V Subhashini,
Head, PG Chemistry,
Hindu College,
Guntur.

To:
The Principal,
Hindu College,
Guntur.

Sub: Requesting permission for Add on Course – Reg.

Respected Sir,

The department of PG Chemistry is planning to conduct Add on course on Nano Biotechnology to M.Sc Chemistry students. In this regard, I request you kindly to permit Nano Biotechnology Add on course for the benefit of students. The duration of the course is 30days. From 02-01-2021 to 12-02-2021.

Thanking you, sir.

Yours faithfully

(Dr.E.H.V Subhashini)
Dr. E.H. VIJAYA SUBHASHINI
M.Sc.,M.Phil.,B.Ed.,Ph.D.
HEAD, Department of Chemistry
HINDU COLLEGE, GUNTUR,

CIRCULAR

28-01-2021

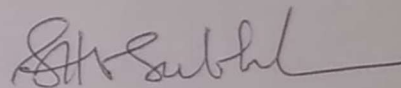
All the M.Sc. Chemistry 2nd year students are hereby informed that a certificate course will be conducted on "Nano Biotechnology" from 02-01-2021 to 12-02-2021 in our chemistry department.

Training program schedule:

Dates:02/01/2021 onwards

Time:3.00pm to 4.30 pm

Venue: PG chemistry class room



Head of the Department
Dr. E.H. VIJAYA SUBHASHINI
M.Sc.,M.Phil.,B.Ed.,Ph.D.
HEAD, Department of Chemistry
HINDU COLLEGE, GUNTUR.

HINDU COLLEGE:: GUNTUR
 DEPARTMENT OF CHEMISTRY (PG)
 CERTIFICATE COURSE: NANO BIOTECHNOLOGY

S.NO	NAME OF THE STUDENT	ACADEMIC YEAR: 2021 JAN - FEB						
		Sat	Sun	Mon	Tue	Wed	Thu	Fri
1	IBELI RAJESKARI	/	/	/	/	/	/	/
2	IRANTRI MAMATHA	/	/	/	/	/	/	/
3	IRATHULA DEVI PRITHVANGA	/	/	/	/	/	/	/
4	GADEK KRUNIKA	/	/	/	/	/	/	/
5	GAJAPALI DIVYAKAR	/	/	/	/	/	/	/
6	GAJAPATI SRIKANTH	/	/	/	/	/	/	/
7	GAVERI SRI TRIDIKSHA RAO	/	/	/	/	/	/	/
8	GAJANATHI ANWATHI	/	/	/	/	/	/	/
9	GOUDAPATI MEERAJAH	/	/	/	/	/	/	/
10	GOUDAPATI ANANDHAPRASANNA	/	/	/	/	/	/	/
11	KARRE TRIVIKRAM	/	/	/	/	/	/	/
12	KARRE SRI SAI PRITHVANGA	/	/	/	/	/	/	/
13	KAVULA ANJALI	/	/	/	/	/	/	/
14	KAVITHA HARITHA DEVI	/	/	/	/	/	/	/
15	KAVYA RANJANA	/	/	/	/	/	/	/
16	KAVYALAKSHMI	/	/	/	/	/	/	/
17	KAVYASREE DIVYADARSHYANI RANI	/	/	/	/	/	/	/
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59	KAVYASREE DIVYADARSHYANI RANI	/	/	/	/	/	/	/
60	KAVYASREE DIVYADARSHYANI RANI	/	/	/	/	/	/	/

HINDU COLLEGE PG COURSES, GUNTUR

DEPARTMENT OF CHEMISTRY (PG) 2021

S.NO	NAME OF THE STUDENT	MARKS
1	BOLLU RAJESWARI	44
2	BANDI MAMATHA	40
3	BATTULA DEVI PRIYANKA	41
4	GADDE MOUNIKA	47
5	GAMPALA DAYAKAR	40
6	GANGADHARA VENKATANAGALAKSHMI	42
7	GAVIDI SUDHAKARA RAO	43
8	GORANTLA SWATHI	46
9	JOGIPATHI MEERAAH	42
10	KODIPILLA LAKSHMIPRASANNA	42
11	KAMBHAMPATI HARISH	38
12	KANDUKURI SAI PRIYANKA	39
13	KOLLA ANJALI	41
14	KONATHAM RAMA DEVI	44
15	KOTA RAMYA	42
16	KOYI ANIL	45
17	MANCHILALAPUDI KEJIYA RANI	42
18	MEDABALIMI KISHORE	40
19	NUTHAKKI LUMBINI	38
20	PALAPARTHI REVANTH	39
21	PAMIDIMALLA SUPRIYA	45
22	PASUPULETI SATISH KUMAR	44
23	PEDDAKOTLA RAVI	41
24	PITCHALA RAGA SINDHUJA	46
25	SAYED FATHIMA	40
26	SHAIK DILISHMA	42
27	SHAIK KAREEM	39
28	SHAIK RAHEEM	38
29	TANGUTURI ANANDA BHARGAVI	42
30	VANGA BHARGAVI	42
31	VILASARAPU NAVEEN	41
32	YASMIN PATTAN	44

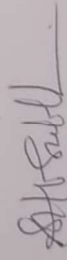
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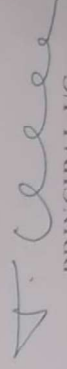


(Affiliated By Acharya Nagarjuna University)
Re-accredited By NAAC as Grade A

CERTIFICATE

This is to certify that Mr. Miss B. RATESWAR _____ studying
_____ has successfully completed certificate course on *Nano Biotechnology*
conducted by Dept. of Chemistry (P.G), Hindu College, Guntur,
from 21/02/2021 to 12/02/2021. We wish all the best in his/her future endeavors.


HEAD
Dr. E.H. VIJAYA SUBHASHINI
M.Sc., M.Phil., B.Ed., Ph.D.
HEAD, Department of Chemistry
HINDU COLLEGE, GUNTUR.


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GUNTUR.

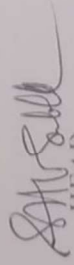
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CERTIFICATE

This is to certify that ~~Mr~~ Miss G. MOONIKA _____ studying
_____ has successfully completed certificate course on *Nano Biotechnology*
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PRINCIPAL I/C

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