

STARTED BATCH IN CERTIFICATE COURSE – 2020



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	2020-2021	03-02-2020	06-03-2020

HINDU COLLEGE :: GUNTUR		
DEPARTMENT OF CHEMISTRY (PG)		
CERTIFICATE COURSE LIST 2020		
S.NO	NAME OF THE STUDENT	SIGNATURE
1	ANGADI SIRI	Bini A.
2	BHUMIREDDY NAVEENA KUMARI	Naveena kumar B.
3	CHADARAJUPALLI RAMYA	Ramy a CH.
4	CHENNUPATI PRANATHI LAKSHMI	Pranathi lakshmi CH
5	CHINTHALAPUDI SIVA PAVANI	CH. siva Pavani
6	GADE SUMATHI	Sumathi(G)
7	GANJIKUNTA PAVANI	G. pavani.
8	KALLA YADIDYA	K. YADIDYA
9	KANNASANI JAYANAYANA	K. Jayanayana.
10	KATREDDY VENKATA RAMANA REDDY	K. venkata Ramana Reddy
11	KOPPANATI RAGHAVENDRA RAO	K. Raghavendra Rao
12	KOTHA MIDDELA RAHUL REDDY	Rahul Reddy. K
13	MALAPATI GNANA LATHA	Gnana Latha M.
14	MARRI ANUSHA	Anusha. M.
15	NADIMPALLI SATEESH KUMAR	N. Sateesh kumar
16	NALLURI SIRISHA	N. Sirisha.
17	NAMBULA GOPAL KRISHNA	N. Gopal Krishna
18	NUTAKKI SUJITHA	N. Sujitha
19	PAILA GOPI KRISHNA	P. Gopal Krishna
20	RAYALA ANIL KUMAR	Anil kumar. R.
21	SABINEESU MANIKANTA	manikant. S.
22	SAJJA VEERABHADRAIAH	S. veerabhadraiah.
23	SAVARALA TRIVENI	S. Savarala
24	SHAIK JALEEL BASHA	S. Jaleel Basha
25	SUDHI MEENAKSHI	S. meenakshi
26	SUNKESULA CHINNA POLAIAH	Chinna poliah S.
27	TELLAKULA NAVEEN KUMAR	T. Naveen kumar
28	VALLEPU SIRISHA	V. Sirisha
29	VASIMALLA SAILU	V. Sailu
30	VATTIKUTI AKHILA	V. Akhila.
31	VEMANAPALLI SUSHMA	Sushma V.
32	SANGU MANISANDYA	S. Manisandya

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:

7. Nanobiotechnology: Concepts, Applications and Perspectives (2004), Christof M. Niemeyer (Editor), Chad A. Mirkin (Editor), Wiley VCH.
8. 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

- 34. Write a note on Nanomaterial's used in Biotechnology?
- 35. Explain Nano biotechnological applications in Health and disease – infectious and chronic?
- 36. Write The Biological Nanoparticles production from plants?
- 37. Write a note on bio macromolecules?
- 38. Explain in detail about Nano biotechnological applications in Environment?

Answer any Three of the following

4x5 = 20M

- 39. Write a note on nucleic acids as genetics materials?
- 40. Explain quantum dots?
- 41. What are Nanotubes & Nanowires?
- 42. Nano biosensors?
- 43. Applications of Nano biotechnology in Food?
- 44. Write a note on Carbohydrates?





Ph: 0863-2220134
2227649

HINDU COLLEGE, GUNTUR – 522 003
(Re-accredited by NAAC as Grade 'A')

Dt: 01-02-2020.

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 03-02-2020 to 06-03-2020.

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

25-01-2020

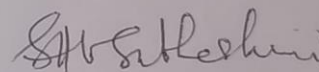
All the M.Sc. Chemistry 2nd year students are hereby informed that a certificate course will be conducted on "Nano Biotechnology" from 03-02-2020 to 06-03-2020 in our chemistry department.

Training program schedule:

Dates: 03/02/2020 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.

CERTIFICATE COURSE: NANO BIOTECHNOLOGY
ACADEMIC YEAR: 2020 FEB - MARCH.

HINDU COLLEGE PG COURSES, GUNTUR
DEPARTMENT OF CHEMISTRY (PG) 2020

S.NO	NAME OF THE STUDENT	MARKS
1	ANGADI SIRI	45
2	BHUMIREDDY NAVEENA KUMARI	46
3	CHADARAJUPALLI RAMYA	43
4	CHENNUPATI PRANATHI LAKSHMI	44
5	CHINTHALAPUDI SIVA PAVANI	40
6	GADE SUMATHI	42
7	GANJIKUNTA PAVANI	40
8	KALLA YADIDYA	38
9	KANNASANI JAYANAYANA	41
10	KATRDDY VENKATA RAMANA REDDY	40
11	KOPPANATI RAGHAVENDRA RAO	42
12	KOTHA MIDDELA RAHUL REDDY	42
13	MALAPATI GNANA LATHA	40
14	MARRI ANUSHA	47
15	NADIMPALLI SATEESH KUMAR	46
16	NALLURI SIRISHA	42
17	NAMBULA GOPAL KRISHNA	44
18	NUTAKKI SUJITHA	40
19	PAILA GOPI KRISHNA	42
20	RAYALA ANIL KUMAR	44
21	SABINEESU MANIKANTA	41
22	SAJJA VEERABHADRAIAH	38
23	SAVARALA TRIVENI	43
24	SHAIK JALEEL BASHA	39
25	SUDHI MEENAKSHI	43
26	SUNKESULA CHINNA POLAIAH	38
27	TELLAKULA NAVEEN KUMAR	47
28	VALLEPU SIRISHA	43
29	VASIMALLA SAILU	40
30	VATTIKUTI AKHILA	44
31	VEMANAPALLI SUSHMA	38
32	SANGU MANISANDYA	42

HINDU COLLEGE, GUNTUR

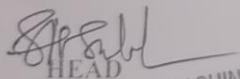


(Affiliated By Acharya Nagarjuna University)

Re-accredited By NAAC as Grade A

CERTIFICATE

This is to certify that Mr./Miss T. NAVEEN KUMAR studying
_____ has successfully completed certificate course on *Nano Biotechnology*
conducted by Dept. of Chemistry (P.G), Hindu College, Guntur,
from 3/02/2020 to 6/3/2020. 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.


PRINCIPAL I/C
PRINCIPAL I/C
HINDU COLLEGE P.G. COURSES
GUNTUR

HINDU COLLEGE, GUNTUR

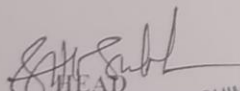


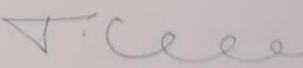
(Affiliated By Acharya Nagarjuna University)

Re-accredited By NAAC as Grade A

CERTIFICATE

This is to certify that Mr./Miss B. NAVEENA KUMAR studying
_____ has successfully completed certificate course on *Nano Biotechnology*
conducted by Dept. of Chemistry (P.G), Hindu College, Guntur,
from 3/02/2020 to 6/3/2020. 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.


PRINCIPAL I/C
PRINCIPAL I/C
HINDU COLLEGE P.G. COURSES
GUNTUR