

STARTED BATCH IN CERTIFICATE COURSE – 2019



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	2019-2020	04-02-2019	08-03-2019

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:

5. Nanobiotechnology: Concepts, Applications and Perspectives (2004), Christof M.Niemeyer (Editor), Chad A. Mirkin (Editor), Wiley VCH.
6. 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

23. Write a note on Nanomaterial's used in Biotechnology?
24. Explain Nano biotechnological applications in Health and disease – infectious and chronic?
25. Write The Biological Nanoparticles production from plants?
26. Write a note on bio macromolecules?
27. Explain in detail about Nano biotechnological applications in Environment?

Answer any Three of the following

4x5 = 20M

28. Write a note on nucleic acids as genetics materials?
29. Explain quantum dots?
30. What are Nanotubes & Nanowires?
31. Nano biosensors?
32. Applications of Nano biotechnology in Food?
33. Write a note on Carbohydrates?





Ph: 0863-2220134
2227649

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

Dt: 27-01-2019.

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 04-02-2019 to 08-03-2019.

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

27-01-2019

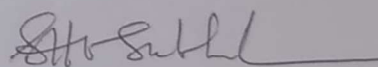
All the M.Sc. Chemistry 2nd year students are hereby informed that a certificate course will be conducted on "Nano Biotechnology" from 04-02-2019 to 08-03-2019 in our chemistry department.

Training program schedule:

Dates:04/02/2019 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.

NANO BIOTECHNOLOGY
HINDU COLLEGE PG COURSES, GUNTUR
DEPARTMENT OF CHEMISTRY (PG) 2019

S.NO	NAME OF THE STUDENT	MARKS
1	BATHULA SAI TEJA	45
2	CHALAMALAPALLI GEETHA NAGAMANI	47
3	CHALLA DEVI	40
4	CHERUKURI ASHOK	47
5	CHINNI RAMADEVI	44
6	CHINTHALAPUDI SREEKANTH	40
7	DASARI POOJA	46
8	SHULIPALLA SRINIVASARAO	43
9	DUMPALA RAJESWARI	45
10	INAKOLLU NAGAVENU	40
11	KOLLI RAMANJANEYULU	39
12	KOMARAGIRI GOPI	43
13	LINGALA JANAKI RAMUDU	46
14	MALLELA SAI KRISHNA	45
15	MORABOINA KOTI ANJANEYULU	42
16	MULLI SATHYA	41
17	NUNNA MANGAMMA	45
18	NALLAMOLU SYAM PRASAD	40
19	NARNE PATI KIRAN KUMAR	42
20	PAMMI SRAVA REDDY	40
21	PASUPULETI SWAPNA REKHA	43
22	PATI KRUPA	44
23	PERAM NAGARJUNA REDDY	41
24	PERIKALA SRI LATHA	43
25	PIDAPARTHI MOUNIKA	40
26	PRATHIPATI DIVYA SRI	42
27	SHAIK NAGEENA	45
28	THIYYAGURA SRAVANTHI KUMARI	43

