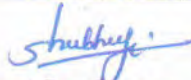


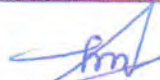


PHARMACOGNOSY SUBJECT INHANDS ON LEARNING (CONTENT BEYOND SYLLABUS)

Sr. No.	Date	Name of the Topic	Contents	Mapping with Syllabus
1	22/08/2022	Introduction of Indian pharmaceutical.	demonstration.	For the standard ^o of drugs.
2	13/09/2022	How to write Reference as per Reference style	Manual	for the References
3	03/09/2022	genetic engineering.	Introduction.	Radioisotope
4	07/09/2022	UV IR FTIR SEM.	Introduction	Application



Subject In charge


HOD


Academic In charge



PRNCOP, Gondur


Dr. Avinash Vishwanath Patil
Principal
OBVS

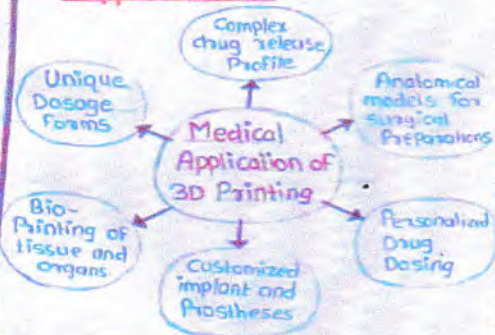
Prof. Ravindra Nikam College of
Pharmacy At Gondur, Dist. Dhule (M.S.)

3D PRINTING IN PHARMACEUTICALS

* History →

- The 3D Printing technology in Pharmaceutical was invented by 'CHARLES HULL' in 1984
- The 1st documented iteration of 3D Printing can be traced back to early 1980s in Japan.
- This technology was 1st used for medical purposes as 'Dental Implant And Custom Prosthetics' in 1990s and the technique define by International Standard Organization (ISO)

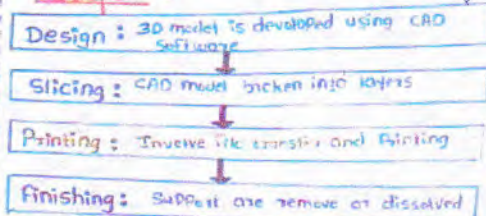
* Applications →



* Advantages →

- Reduction of Prototyping time and costs
- Easy modifications of Production at designed level
- Possibility of manufacturing of small object
- Manufacturing steps is reduced

* Steps →



* Conclusion →

- 3D Printing become useful and Potentially transformative tool in different fields
- 3D Printing has a wide range of applicat^on in manufacture of biomedical devices and Drug delivery system in medice field

Name : Lambale Dhanashri Prakash (38)
Class : B Pharmacy (T.Y 5th Sem)
Reference : www.research gate net.

Guide by : Prof. Shubhangi Sonawane
S.H.



ANTI-DIABETIC ACTIVITY OF AN ALKALOID ISOLATED FROM LYMNITZERA RACEMOSA

Antidiabetic activity of An alkaloid 4a-Methyl-5-(6-Methylhept-5-En-1-Yl) Octahydro-1H-cyclopenta[A] Pyridazine) Isolated From Lymnitzera racemosa in Streptozotocin-Induced Diabetic Wistar Rats

Materials and methods:-

- The Active Principle isolated by chromatography and identified with High Performance liquid Chromatography.
- Structure elucidation was done by FI-IR, NMR, LCMR and Elemental Analysis.
- Antidiabetic Activity of that isolated compound Monitored by using In Vitro α -Amylase & α -glucosidase inhibition & In vivo - STZ - induced diabetic Rat model.

Result:-

- It Results Significant dose dependent decrease in blood glucose levels. Besides this the haematological findings, biochemical & histopathology of isolated compound indicating protective role of compound against any damage to Pancreas, liver and kidney.
- HPLC & different Spectroscopic analyser revealed that the isolated compound is 4a-methyl-5-(6-methylhept-5-en-1-yl) octahydro-1H-cyclopenta[A] pyridazine, which belongs to Alkaloid class of Secondary Metabolites.
- Data obtained states that alkaloid isolated from L. Racemosa leaves Possesses Significant antidiabetic activity in both in-vivo & in-vitro model.

Lymnitzera Racemosa :-


Synonym:- White flowered black Mangrove

Family:- Combretaceae.

Geographical Source:- It is found in Eastern Coast of Africa.

Chemical Constituent:- Fatty acid, Alkaloids, tannins, Flavonoids, Terpenoids

Uses:- Antibacterial, Antifungal, Antihypertensive, Antidiabetic.

Lymnitzera Racemosa :- 

Name:- MAMTA ARUN MALI
 Class :- T.Y. B.Pharmacy ; Sem-V;
 Roll No:- 44
 Reference:- International Journal of Pharmaceutical Investigation Vol.12 (2022); www.iponline.org
 Guide by :- Prof. Shubhangi Sonawane
 Sign :-



Dr. Avinash Vishwanath Patil
 Principal

