

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON

ACADEMIC YEAR

2019-2020



GOVERNMENT DEGREE COLLEGE

PALAKONDA

SRIKAKULAM DISTRICT



**GOVERNMENT DEGREE COLLEGE-PALAKONDA
SRIKAKULAM DISTRICT**

CERTIFICATE COURSE ON PHARMACEUTICAL DRUGS



Duration of the course: 30 Hrs
05/Aug/2019
To
14/Sep/2019

ORGANIZED BY DEPARTMENT OF CHEMISTRY

Instruction to the Students :

- 75 % of course attendance compulsory to get the certificate.
- Students who will get 40 % of marks in the examination they will eligible to get certificate.

**Further Contact :
Sri.S.Jaganmohana Rao,
(Course Coordinator)S
Department of Chemistry.**

GOVERNMENT DEGREE COLLEGE- PALAKONDA
DEPARTMENT OF CHEMISTRY

Palakonda,
Date :01/08/2019


To
The Principal,
Govt. Degree College,
Palakonda,
Srikakulam Dist.

Respected sir,

We, the faculty members of Department of Chemistry submit your notice that we would like to conduct a Certificate course on "Study of Pharmaceutical Drugs" for III B.Sc. students with the duration of two months.

Hence we humbly request you to accord permission to initiate the certificate course in our department.

Thanking you sir,



Principal
Govt. Degree College
Palakonda - 532 440

Yours faithfully,

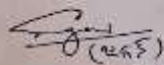
GOVERNMENT DEGREE COLLEGE-PALAKONDA
DEPARTMENT OF CHEMISTRY

CIRCULAR

Date:01/08/2019


The Department of Chemistry is planning to conduct a certificate course on “ **Pharmaceutical Drugs**” for III B.Sc. students. Hence the interested candidates are advised to meet the In-charge or other faculty members of Department of Chemistry on or before 03/08/2019 and registered their names.

The course will be start from 05/08/2019 i.e Monday and the course duration is 30 days. Participation/merit certificate will be issued to individual after completion of the course.



LECTURER IN CHEMISTRY

Lecturer in-charge
Department of Chemistry



Principal
Govt. Degree College
Palakonda - 532440

Principal
GDC, Palakonda

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON

PHARMACEUTICAL DRUGS



2019-2020

GOVERNMENT DEGREE COLLEGE

PALAKONDA



SRIKAKULAM DISTRICT

S.Jaganmohana Rao

Dr.P.Krishna Rao

COURSE COORDINATOR

PRINCIPAL

INTRODUCTION :

The pharmaceutical industry is one of the extremely regulated industries, with several government regulations to protect public health. Therefore, the important target of the pharmaceutical industry is to develop a Drug product passing the regulatory requirements. On the other hand, regulation of drug development, manufacturing, marketing, and sales involves paradoxical objectives. Drug Regulatory authorities ensure the safety, efficacy, and quality of all pharmaceuticals that are in circulation in their country. The United States Food and Drug Administration (USFDA) is one of the most regulated agencies wherein the Drug submission process is very strenuous and complicated. Understanding the crucial points in the Drug registration procedure will have a considerable impact on the accomplishment of its submission strategy. This course focuses on the following points that could make a Drug registration procedure smooth without any significant delays/failures,

OBJECTIVES :

The objectives of pharmaceutical drugs can vary depending on the specific drug and its intended use. Here are some possible objectives:

- ❖ Basic understanding and terminologies related to Drug Regulatory Affairs (DRA).
- ❖ *Basic Understanding and Terminologies related to DRA,*
- ❖ *Need and essential qualities of Regulatory Affairs Professional,*
- ❖ Treating medical conditions: Many pharmaceutical drugs are designed to treat specific medical conditions or diseases. For example, antibiotics are used to treat bacterial infections, while insulin is used to regulate blood sugar levels in people with diabetes.
- ❖ Alleviating symptoms: Some pharmaceutical drugs are used to alleviate symptoms associated with a medical condition, even if they don't treat the underlying cause. For example, pain relievers like aspirin or ibuprofen are used to alleviate pain, while antihistamines can help reduce allergy symptoms.
- ❖ Improving quality of life: Some pharmaceutical drugs are used to improve an individual's quality of life by reducing symptoms or improving functioning. For example, antidepressants may be used to alleviate symptoms of depression, which can improve a person's overall wellbeing

OUTCOMES :

- Pharmaceutical drugs can have a variety of outcomes for students, depending on the specific drug and the reason for its use. Here are some possible outcomes:
- Improved Student knowledge: Students aware about terminology in pharmaceutical chemistry, Nomenclature and types of various pharmaceutical drugs.
- Improved performance: Students know about usage of some pharmaceutical drugs in their daily life.
- Improved Academic performance: Study about the pharmaceutical drugs can be useful to the students for their higher education.

GENERAL INFORMATION AND COURSE STRUCTURE

1. Duration of module Training: 30 hrs
2. Entry Qualification: B.Sc., Students
3. Language: English/Telugu
4. Teaching mode: Offline

Distribution of training on hourly basis:

S. No .	Broad theory and Practical components to be covered	Duration	Theory	Days
1	Introduction to pharmaceutical chemistry and drugs.	2	2	2
2	Pharmaceutical chemistry terminology	9	9	9
3	Nomenclature and classification of drugs	9	9	9
4	Synthesis and therapeutic activity	9	9	9
5	Review and Assignment	1	1	1
	Total	30	30	30

SYLLABUS:

- Pharmaceutical Chemistry Terminology: Disease, Drug, Drug Chemistry, Pharmacy, Pharmacology, Pharmacophore, Receptors.
- Nomenclature of Drugs: Chemical Name, Generic name and Trade names with examples.
- Classification of Drugs: Based on structure and therapeutic activity.
- Administration of Drugs: Oral, Eye, Nose, Nerve, etc..
- Synthesis and Therapeutic activity of Drugs: Anti Pyretics (Paracetamol), Analgesics (Aspirin), Anti Biotics (Penicillin), Anti Anginal (GTN), Anti asthamals (Salbutamol)

INSTRUCTION METHODS

Some of the following method of delivery may be adopted

1. Lecture
2. PDF/ Video lesson
3. Demonstrations
4. Group discussions

ASSESSMENT

1. Assignments,
2. Course End Examination

Assessment Mode: Descriptive and multiple-choice answers

Examination conduction: Offline

The syllabus for value added course on” Pharmaceutical Drugs” is hereby approved for the session 2019-20

GOVERNMENT DEGREE COLLEGE-PALAKONDA

DEPARTMENT OF CHEMISTRY

Course : Study of Pharmaceutical Drugs

Course End Examination, September - 2019

Duration:2 hrs

Max.Marks:30

PART-A

Answer any four of the following questions

4x5=20 Marks

1. Write the terminology in Pharmaceutical Chemistry?
2. Write the Nomenclature of Drugs ?
3. Write the classification of drugs based on Therapeutic activity ?
4. Describe about Administration of Drugs ?
5. Write the synthesis and therapeutic activity of paracetamol ?

PART-B

Answer the all following questions

10x1=10 Marks

1. Chemical name of Aspirin_____
2. Trade names for paracetamol_____.
3. Give one example for Oral Drug_____.
4. GTN acts as _____Drug.
5. Give one example for Nossal infections_____
6. Salbutamol is used for _____Disease.
7. Which of the following is used as Anti-Biotic ()
a. Aspirin b. Paracetamol c. Penicillin d. Salbutamol
8. Which name is used for drugs in daily life ()
a. Chemical name b. Trade name c. Generic name d. All
9. Anti-Anginal drugs are used for ()
a. Fever b. Asthma c. Cold& Cough d. Heart Problems
10. The active functional group in a drug is called as ()
a. Pharmacophore b. Receptor c. Both a & b d. None



GOVERNMENT DEGREE COLLEGE PALAKONDA

Affiliated to Dr BR AMBEDKAR UNIVERSITY, SRIKAKULAM

Accredited by NAAC with GRADE B



Certificate of Appreciation



This is to certify that Sri/ Smt/ kum V. Sakanya,
II BSc (MC), Government Degree College, Palakonda has successfully completed
Certificate course on "Pharmaceutical Drugs" conducted

by Department of Chemistry on 14/09/2019 with CHEMCC PD026

certificate ID:

LECTURER IN CHEMISTRY

GDC PALAKONDA

Principal
Govt. Degree College
Palakonda - 532 449

