

BP 206 T. ENVIRONMENTAL SCIENCES (Theory)

30 hours

Scope: Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.

Objectives: Upon completion of the course the student shall be able to:

1. Create the awareness about environmental problems among learners.
2. Impart basic knowledge about the environment and its allied problems.
3. Develop an attitude of concern for the environment.
4. Motivate learner to participate in environment protection and environment improvement.
5. Acquire skills to help the concerned individuals in identifying and solving environmental problems.
6. Strive to attain harmony with Nature.

Course content:

Unit-I

10hours

The Multidisciplinary nature of environmental studies

Natural Resources

Renewable and non-renewable resources:

Natural resources and associated problems

a) Forest resources; b) Water resources; c) Mineral resources; d) Food resources; e) Energy resources; f) Land resources: Role of an individual in conservation of natural resources.

Unit-II

10hours

Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Introduction, types, characteristic features, structure and function of the ecosystems: Forest ecosystem; Grassland ecosystem; Desert ecosystem; Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit- III

10hours

Environmental Pollution: Air pollution; Water pollution; Soil pollution


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Recommended Books (Latest edition):

1. Y.K. Sing, Environmental Science, New Age International Pvt, Publishers, Bangalore
2. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
3. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India,
4. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
5. Clark R.S., Marine Pollution, Clanderson Press Oxford
6. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
7. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
8. Down of Earth, Centre for Science and Environment


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Penalties

- **Medicinal and Toilet Preparation Act –1955:** Objectives, Definitions, Licensing, Manufacture In bond and Outside bond, Export of alcoholic preparations, Manufacture of Ayurvedic, Homeopathic, Patent & Proprietary Preparations. Offences and Penalties.
- **Narcotic Drugs and Psychotropic substances Act-1985 and Rules:** Objectives, Definitions, Authorities and Officers, Constitution and Functions of narcotic & Psychotropic Consultative Committee, National Fund for Controlling the Drug Abuse, Prohibition, Control and Regulation, opium poppy cultivation and production of poppy straw, manufacture, sale and export of opium, Offences and Penalties

UNIT-IV

08 Hours

- **Study of Salient Features of Drugs and Magic Remedies Act and its rules:** Objectives, Definitions, Prohibition of certain advertisements, Classes of Exempted advertisements, Offences and Penalties
- **Prevention of Cruelty to animals Act-1960:** Objectives, Definitions, Institutional Animal Ethics Committee, CPCSEA guidelines for Breeding and Stocking of Animals, Performance of Experiments, Transfer and acquisition of animals for experiment, Records, Power to suspend or revoke registration, Offences and Penalties
- **National Pharmaceutical Pricing Authority:** Drugs Price Control Order (DPCO)-2013. Objectives, Definitions, Sale prices of bulk drugs, Retail price of formulations, Retail price and ceiling price of scheduled formulations, National List of Essential Medicines (NLEM)

UNIT-V

07 Hours

- **Pharmaceutical Legislations** – A brief review, Introduction, Study of drugs enquiry committee, Health survey and development committee, Hathi committee and Mudaliar committee
- **Code of Pharmaceutical ethics** Definition, Pharmacist in relation to his job, trade, medical profession and his profession, Pharmacist's oath
- **Medical Termination of Pregnancy Act**
- **Right to Information Act**
- **Introduction to Intellectual Property Rights (IPR)**

Recommended books: (Latest Edition)

1. Forensic Pharmacy by B. Suresh

2. Text book of Forensic Pharmacy by B.M. Mithal
3. Hand book of drug law-by M.L. Mehra
4. A text book of Forensic Pharmacy by N.K. Jain
5. Drugs and Cosmetics Act/Rules by Govt. of India publications.
6. Medicinal and Toilet preparations act 1955 by Govt. of India publications.
7. Narcotic drugs and psychotropic substances act by Govt. of India publications
8. Drugs and Magic Remedies act by Govt. of India publication
9. Bare Acts of the said laws published by Government. Reference books (Theory)

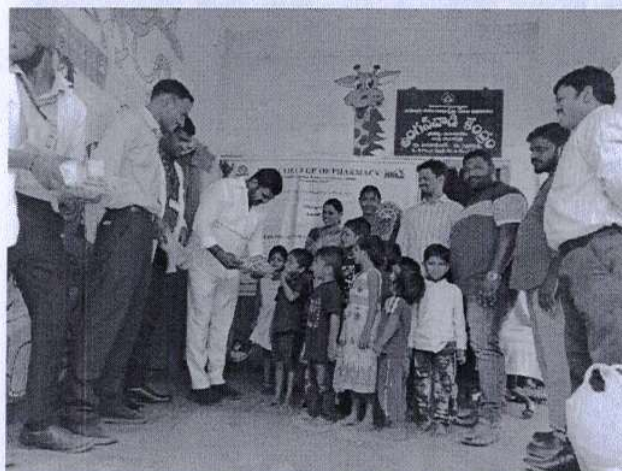

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Date: 07-04-2023

REPORT

Jagjivan Ram Jayanthi Charity Program

On the occasion of Jagjivan Ram Jayanthi, MNR College of Pharmacy conducted Charity program on 06-04-2023 at the Anganvadi school which is located at Hanuman Nagar, Sangareddy. Total 26 student volunteers and faculty attended the program and distributed books, pencils and stationary items to the children.



V. Arora
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M. Satish
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NSS program Officer
NSS PROGRAMME OFFICER
MNR College of Pharmacy
Fasalwadi, Sangareddy-502294(TS)

Date: 28-02-2023

REPORT

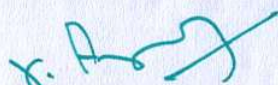
Awareness program on Drug Abuse

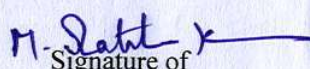
Awareness program on Drug Abuse was conducted at Government Polytechnic College, Hanumnagar village, Ismailkhanpet, Sangareddy on 27-02-2023 by MNR College of Pharmacy students.

Total 35 students participated in the awareness program on drug abuse for the Government Polytechnic College. Students presented the sources of drug abuse and their after effect, treatment options, support systems and rehabilitation of addicted patients. The faculty of the Polytechnic College also participated the awareness program.



Awareness program on Drug Abuse


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Date: 27-01-2023

REPORT

VOTERS DAY AWARENESS PROGRAM

MNR College of Pharmacy observed Voters Day on 25/01/2023. The students assembled at the ground in the campus. Principal Dr. V. Alagarsamy addressed the student volunteers and guided them on creating awareness among public regarding their voting rights and its importance.

Total 60 students participated in the rally organized by MNR College of Pharmacy at Hanuman Nagar, Ismailkhanpet, Sangareddy along with teaching faculty.



Voters' day program at Hanuman Nagar



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Date: 02-12-2022

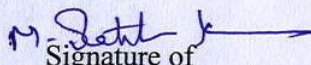
REPORT **World AIDS Day**

MNR College of Pharmacy conducted awareness program on the occasion of World AIDS Day at Government Polytechnic College, Hanumnagar village, Ismailkhanpet, Sangareddy. on 01-12-2022. Total 40 students participated in the awareness .



World AIDS Day Rally


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MNR College of Pharmacy
Fasalwadi, Sangareddy-502294(TS,

Date: 13-04-2021

REPORT

Haritha Haram program

The Haritha haram program initiated by Telangana Government was organized by MNR College of Pharmacy, Sangareddy on 12-04-2021. The program was inaugurated by principal Dr. V. Alagarsamy, Vice Principal Dr. P. Subhash Chandra Bose, by planting the first sapling in the college premises. Principal Dr. V. Alagarsamy briefed on the importance of having a clean and green environment.

Students participated and spread awareness on the importance of planting trees through slogans in and around the college campus. The program lay thrust on planting medicinal and air purifying plants. Faculty and students planted 50 saplings like Bougainvillea, Tulsi, Aloe Vera, neem and a few fruit plant saplings. Total 80 students participated in the program.



Haritha Haram program by Faculty and Students


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NSS program Officer

Date: 23/03/2021

REPORT World Forest Day

The United Nations General Assembly proclaimed 21st March as the International Day of Forests to celebrate and raise awareness of the importance of all types of forests.

To increase awareness on the protection of forests, MNR College of Pharmacy conducted an awareness program on 22/03/2021 at kalubgur, Sangareddy. Total 70 students participated in the awareness rally displaying placards and slogans to stop deforestation and encroachment of forests.

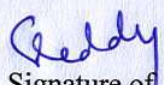


World Forest Day Awareness program



Students displaying slogans for World Forest Day


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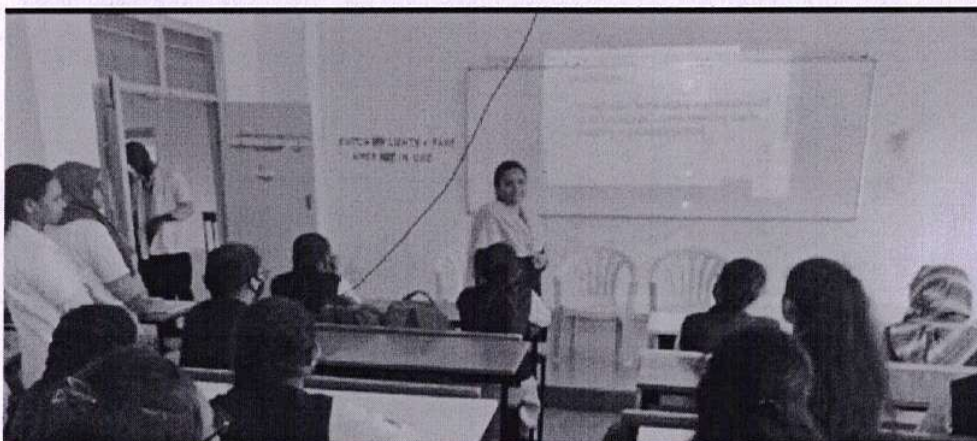
Date: 09-04-2019

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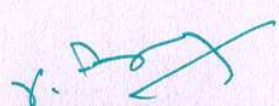
Awareness program for Menstrual Health in Teenagers

MNR College of Pharmacy conducted Awareness program for Menstrual Health in Teenagers on 08-04-2019 at Government Polytechnic College, Mamidipally, village, Sangareddy.

Total 25 students of MNR College of Pharmacy and faculty participated and explained about the different health problems that arise for teenagers and they interacted with students to clear their doubts.



Awareness on health issues in teenagers


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NSS program Officer

Date: 18-03-2019

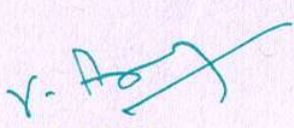
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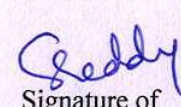
Awareness program on Polycystic Ovarian Syndrome

MNR College of Pharmacy conducted an Awareness program on Polycystic Ovarian Syndrome (PCOD) on 16-03-2019 at Mubarakpur village, Sangareddy. Total 30 students participated and spread awareness on Polycystic Ovarian Syndrome by interacting with villagers and making them understand the symptoms and care to be taken to treat PCOD.



Awareness program for PCOD


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NSS program Officer

Date: 18-03-2019

REPORT

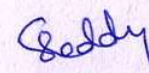
Awareness program on Cervical Cancer

MNR College of Pharmacy conducted a Awareness program on **Cervical Cancer** on 15-03-2019 at Ambedkar Paramedical College, Medaksangareddy Road, Veerabhadra Nagar, Sangareddy. Total 25 students participated in awareness on cervical cancer for around 60 students of Ambedkar Paramedical College. The causes, symptoms and precautions were explained to the students.



Awareness program on Cervical Cancer


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NSS program Officer