	CROSS CUTTING	Professional ethics	gender	human value	Environment & sustainability
ISSUE					
Course code	Name of the course				
BP101T	Human Anatomy and Physiology I- Theory	Х	Χ	$\sqrt{}$	Х
BP107P	Human Anatomy and Physiology I–Practical	Х	Χ	$\sqrt{}$	Х
BP201T	Human Anatomy and Physiology II— Theory	Х	$\sqrt{}$	$\sqrt{}$	Х
BP207 P	Human Anatomy and Physiology II- Practical	Х	\checkmark	\checkmark	х
BP204T	Pathophysiology-Theory	Х	Х	$\sqrt{}$	X
BP203T	Biochemistry-Theory	х	Х	$\sqrt{}$	х
BP209P Biochemistry-Practical		х	х	٧	х
BP106RBT	Remedial biology–Theory	Х	X	х	\checkmark
BP 112RBP	Remedial biology-Practical	Х	Х	Х	$\sqrt{}$
BP206T	BP206T Environmental science		Х	Х	
BP405T	Pharmacognosy & Phytochemistry	Χ	Х	Х	$\sqrt{}$
BP 404T	Pharmacology	Х	Χ	Х	$\sqrt{}$
BP408P	Pharmacology Practical	Х	х	$\sqrt{}$	Х
BP505T	Pharmaceutical jurisprudence	$\sqrt{}$	Х	Х	Х
BP507P	Pharmacology-II Practical	X	X	$\sqrt{}$	Х
BP 508P	Pharmacognosy & Phytochemistry-II Practical	x	x	x	V
BP503T	Pharmacology-II	Х	Х		Х
BP504T	Pharmacognosy & Phytochemistry	Х	Х	Х	
BP602T	Pharmacology-III	X	Х		X
BP608P	Pharmacology-III Practical	X	Х	٧	X
BP603T	Herbal drug technology	X	Х	Х	$\sqrt{}$
BP609P	Herbal drug technology	X	X	Х	$\sqrt{}$
BP703T	Pharmacy practice	√	Х	Х	Х
BP802T	Social Preventive pharmacy		Х	Х	Х
MPL104T	Cellular &Molecular pharmacology	$\sqrt{}$	Х	Х	X

MQA201	Hazards &safety management	V	Х	Х	Х
MPG102T	Advanced pharmacognosy	Х	Х	Х	
MPG103T	Phytochemistry	Х	Х	Х	
MPG202T	Advanced pharmacognosy -II	Х	Х	Х	
MPG203T	Indian systems of medicines	Х	Х	Х	
MPG204T	Herbal cosmetics	Х	Х	Х	



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE

WORLD POPULATION DAY 11_{TH} JULY 2022

Jeypore College of Pharmacy celebrated "World Population Day 2022" with the theme "A world of 8 billion: Towards a resilient future for all- Harnessing opportunities and ensuring rights and choice for all". For this celebration we the staffs of Jeypore College of Pharmacy visited Rondapali village with some of our students. We meet 23 no. of people of Rondapali and create an awareness to increase all the detrimental effects population growth has had on the steady advancement of nature.



PIC-1 SANKAUDI VILLAGERS GATHERING



South of the second

Jeypore College of Pharmacy

(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

JEYPORE COLLEGE OF PHARMACY, RONDAPALI

EVENT NAME: WORLD POPULATION DAY DATE: 11.07.2022.
THEME: Aworld of 8 billion: Towards a resilient future for allHarrison opportunities and ensuring rights choice for all
NAME OF THE PERSON

L NO	NAME OF THE PERSON	SIGNATURE / FINGER IMPRESSION		
	V huer or patonoise	v Munaa patrain		
	J. Shr	J. Shim		
	Tite manuer ora	Fitce mohan ion		
	SRidnaRa-m	srisnara·m_		
	Yeshba Kamar	Keshba Kamar		
	papu Biswal	pepu Bisweh		
	Subhum Biswal	Subham Biswal		
	Subhum Bisoval Kamerloah Purasi	Kamellon Ritasi		
	Damier Mechartana	Samira Maharana		
	Runn outhi	Record orcesti		
		Dambary Kaerim		
	Sounda Mcheinardia	Somenda Mohanendola		
	Sudy Mayer	sucris norgale		
		Deliplay		
		Bhagoban papage		
	U	rande 197		



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

150	133				
w	0.5	αī	LD.		
w	B.	ИS	lea-	w	
94	м	26.	ΔĿ	10.0	4
В	H	槶	30	(c)	4
	5	18	NΕ	31	3
13	w	25	v	3	ā
-19		200		No.	•

JEYPORE COLLEGE OF PHARMACY, RONDAPALI

EVENT NAME:

DATE:

THEME:

SL NO NAME OF THE PERSON	SIGNATURE / FINGER IMPRESSION
Dhompalk	Ohem Paik
Mayulerta Seelu	
partha panignahi	
Brunda pradhan	Filter School Co.
Bhina majhi	And Control of the Co
Subanaa panda	
Namita prachar	A SAME WILLIAM
iakhi ch Bagdhan	
U	- EMACHINA



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST, ODISHA-764002

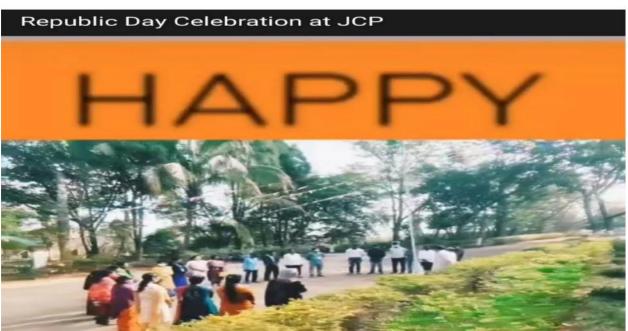
HUMAN VALUE

REPUBLIC DAY **26TH JANUARY 2022**

In continual form of celebrating "Republic Day" this year also Jeypore college of Pharmacy along with all the students, faculty members, management members had celebrated 73 rd Republic Day on 26th January 2022. From January 26 1950 the constitution of India came in to force and our India Designated as a republic. The Programme was scheduled from 8.00 am at our college premises. The Principal Dr. Sangram Keshari Panda hoisted the national flag and the programme is continued by singing "National Anthem" and Motivational speech from Principal Sir and patriotic other students, staffs. A beautiful Rangoli is arted by Mrs Pratit Kanchan Sahu on republic day. In the end, the programme was concluded by Distributing sweets boxes to all students. The celebration creates awareness on the constitution of our country among all students foe their nation's pride.







PIC-1:CELEBRATION OF REPUBLIC DAY

RONDAPALLI, JEVPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE

YOUTH DAY 12TH JANUARY 2022

Jeypore college of Pharmacy celebrated the National Youth Day on 12th January 2022 to commemorate the birth day of Swami Vivekananda. Dr.S.K Panda Principal , Jeypore College of Pharmacy was the chief guest on the occasion. He has spoken on a number of salient points regarding the life of Swami Vivekananda and his contribution towards the education field. Mr Vikram Viswajit Vinod Ku. Mishra, Associate Professor of Jeypore College of pharmacy presided over the function. In his address, he insisted the importance of conducting National Youth Day. Various members of Jeypore college of pharmacy , HODs of UG and Diploma staff of every departments were present on the occasion. 30 no of students were taken part in this occasion. The programme was compeered by Mrs Mazma Begum.



PIC 1 CELEBRATION OF NATIONAL YOUTH DAY.

Jan



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

THE Intergenerational Solidarity: Creating a world

04.12	- TIME TO STATE OF	101 1111 111	STEPPENT SIGNATURE
01	Deeptisikha Navak	1903268034	Deeplisk La Nayell
03	Angali Rath	1903268014	Aniali Roth
	Parsha mohanty	140358 8055	Bartha anghany
04	Albert Bagh	1903268008	Albert Bash
05	Albert Bagh Bapyi Parda	1903728090	Bapuji Porda
06	Abishek Musgo	1903268004	Abishek Murgo
-07	Adit Wirdi	1903268005	Adla orirei
04	Atulya Kumare Sachus	10,03268018	Attlya human salue
09	Abhiche Parigrahi	1903268002	Abhishek Panymahe
10_	Alem Tohnun Navak	1903268009	Alexa Talantas Dansaus
!	Anabinda Dradhan	1903268016	Alem Johnson Nayau
12	Abharet Machan	1903268001	Abhiveet Mishra
13	Ankit Kumar panda	1903968015	Ankit Kumar Danda
74	Debabyata Kabiy	1903268030	Ankit Kumar panda Debabrat, Kabir
15	Devipreased Mahana	1903268035	Departate, Kasin
16	Abinash Strah	1903268003	Deriphasad mahanto.
17	Ro. A Pay Kimar Maranta	1903268006	Abthaih Singh
1.8	of. 19 za Patra	2123268015	Ajay kunar Mohanta
19	ontopola M 99HASH3	91535 68000	s. Dzer patria
20	- Jyutiremayee Mishrea	2003268074	systemayee motatetra
21	Simon Rigal	2003268089	PI DI ABURA.
22	Ragmi Badhuli	2123268005	Simon Dial
23	Thing tremous fordance.	2003268075	Bagmi Badhuli
24_	Dibnu blonut Daniera hi	2123260006	Tychremagi Sadongi
25	Sugnimu-Spkhan Mishna.	20022208-000	By blu bi bhai ponigrahi
28	Ranchandra Mehren	20032000	Suchanner Sethern.
27	1 audren Manday	2003288073	Rancipingtra Me Le
29	Syamonand pertitaring	2003268095	TOURS OF THE OR OF THE OF
30	Rasmi Kanta Samal.		symanon de pattonit
31	Santosh kumar pate	2003268081	Halmi Isanda lamas.
32	S. Havi prasad	2003268086	Jantosh klumor On 17.
		2003268084	s. Hariprosad
200			

Principal



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE



JEYPORE COLLEGE OF PHARMACA, RONDAPALE STUDENT NAME: Studya Kuman Salus. REGIND: 12.01.2022
Please rate the following on a scale of poor to excellent:

Poor	Average	Good	Very good	Exections	
1	2	3	4	5	
How was tl	ie experience f	rom the ev	ent?	-	
1	2		3	W	5
How entert	aining was the	event?			
1	2		3	4	15
Did this eve	ent meet your	expectation	1?		
1	2		3	4	15
	tions for futur	re program	me?		
Ans: 916	s very	Civid -			

JANJATIYA GAURAV DIWAS 15TH NOVEMBER 2022

By giving tributes to "Birsha Munda" Jeypore college of pharmacy is observed "Janjatiya Gourav Divas" on November 15 2022. For celebrating this day students of UG and PG are allowed to have a knowledge ride to the "Tribal Museum" at Koraput. During their visit students came across different daily ware clothes patterns of tribal day to day used utensil's, house old equipments, straw hats made by hand to give them protection during rain, different types of currency used by tribals and their rituals they have performed in their cultural functions. This visit makes them riches to know about different tribal society and their culture also.



PIC-1 Students Visiting Tribal museum



PIC-2 Students Observing weapons of Tribal's.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE

INDEPENDENT DAY 15.08.2022

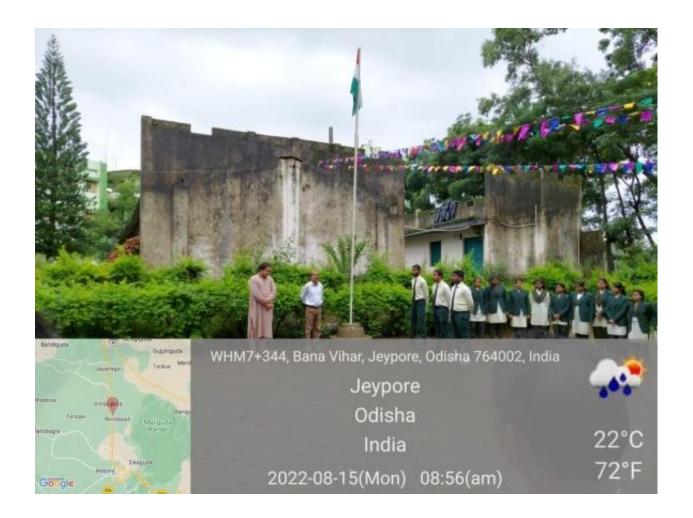
Like every year, this year also our college Jeypore College of Pharmacy celebrated Independence Day on 15 Aug 2022 with great joy and pomp. On that day the sense of happiness and pride could be clearly seen on the faces of all the people as India was celebrating 76th Independence Day. The programme started at 8.00 am. The Principal, vice principal along with all faculty and students are present at the field. Principal of Jcp unfurled the flag at around 8.45 am. As soon as the flag was hosted, everyone sang the national anthem. One B.ph Student Mr. Dinesh Ku Penta gave an in-depth speech on how we got freedom. His Speech was followed by the speech of our Principal Sir. Then Prize distribution programme was started in which the students who got first, second and third position in fancy dress competition are rewarded by the Principal. In the end the programme ended by giving a sweet box to all students.



PIC-1:FLAG HOSTING



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE



PIC-2:SPEECH BY PRINCIPAL



PIC-3: SPEECH BY STUDENTS



PIC-4: SLOGANS DELIVERD BY STUDENTS



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

OFFI

1 6 7 1 7 1

Lat. Ros ve of

1.30 13.08.1

The staff and students of Jeypan College at Pharmas, are head informed that our college will be observe the "Independence Day" on 15.08.2022 at our college campus at 08.15 A.M. For this purpose bus will ply as per the below mentioned schedule.

Place Kotpad Nabarangpur Jeypore Starting Point
Kotpad Bus stands
bhandaragharani chowke
Girl's Hostel
SKT Hall

Time
7.15 A.M.
7.15 A.M.
7.35 A.M.
7.45 A.M.

PRINCIPAL

FRUNCIPAL

FEYPORE COLLEGE OF PHARMACY

RONDAPALLI, JEYPORE (10 764002

Copy to Buses / Notice boards.



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

EVENI NAME: Independence Day

THEME:

JEVYORE COLLEGE OF PHARMAC'S ROSSIAS ALL

DATE: 15 Aug 2022.

	STUDENT NAME	REGDINO	STUDENT SIGNATURE
0)		1903268095	Tunnoyo Kumonsohu
02	Sohon kumar Souher	1903261644	Soher kurner sahu
03	Sangram Kechani Ban	1703268073	Songram Keshani Bay
•4	Suthern Tripally	1403568083	Subham Thipedhy
05	Theore Ranzan Movaphy	103268090	Thranc Roman Mohanty
06	Sangram human chrohi	1903268614	Canpram buman Singhe
07	Sangram humanetrythe	1903264045	Sabharisa Gjorden
. 15	Santit Jumas Gickheyet	1903268075	Sunlosh humor hellhuselt
09	V. Chowi sai schan	1903268091	V. Govisai seknah
10	Honesh pulcuri	2103268038	Hagesy puiani
11	Pratix Rason Sodi	2103268062	pratik kason sodi
12_	Hemanity Kumar SAHU	203268039	Hemainton byman sah
18	Mana kuman pattanayeye	2103262052	Hunginton byman sah
14	LNKTUCKIA Brioneri	2103268049	Lawreeston Batongi
15	Raketh Kumare Mishrea	2103268069	Rakesh kumare Milved
16	Manoj Kumar Sahu	2103563025	Manoi kuman sahu
17	Kirran chandra meherr	2103268047	Wirran chardra meherz
15	forcemeshware Noik	2103268058	parcomethion Noix
19	Mimai Charan Mehor	2103268056	Nimai Cn. Mehon
20_	General Maharana	2103268086	
31	Kanhu Swain	210 326 8046	Kanhu Juan
22	Infit Prakash Sahu	2103262041	Ingit prakas Sahu
23_	Ramerhuan pravad Micha	2105268090	Ramerhuan prousad Mishra
24	Gunjan Palnasu	FE0997891C	Gunjan Palmati
25	Priyainshu Scha	2103268066	Priyanshi saha
26	Podja Zama	210.326 8 060	Poola Zama
27	Cayal Pringadarchines Believa	2105268055	Liptima Khilla
28	Laptima Khilly	2103268063	Dear Katawa Par Chi
20	Ojaenini Sunani	2103768024	Prieefinayee Partida
		317 313 317	
		-	

PRINCIPAL
PRINCIPAL
PONDAPALI, EYPORE (N) 784992



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

ELL PA		E COLLEGE O	F PHARMA	CY, RONDA	PALI		
1	FEED BA	ACK FORM					
	EVENT	NAME: INDEP	endence 1	DAY	D	ATE: 15.08.2022	
	STUDEN	TNAME: Prod	in Rason 8	lodi	RI	EGD NO: 2103268	06
	Plea	se rate the follow	ving on a scal	le of poor to e	xcellent:		
	Poor	Average	Good	Very good		lenî .	
	1.	2	3	. 4	5		
1. I	Iow was th	e experience f	rom the eve	ent?			
	1	2	3		4	5	
2. E	Iow entert	aining was the	event?			. 3	
-	1	2	3		4		
3. L	id this eve	nt meet your e	expectation	?	•		
	1	2	3	-	4	5	
4. A	ny suggest	tions for future	nrogramn	ne?		3	

Jan



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE

WORLD PHARMACIST DAY 25TH September 2022

On 25th September 2022 Jeypore college of Pharmacy celebrated "World Pharmacist Day" having the theme "Pharmacy united the Nation for a healthcare world". At the beginning of the function Principal Dr Sangram Keshari Panda presented his speech enriched with the theme provided this year. Our Chief Guest Senior Pharmacist Mr. Sanjeeb Ku Subudhi and Chief Speaker Mr.S. Satish Rao Senior Pharmacist DHH.Jeypore are being present with us. Mr Sanjeeb Ku. Subudhi spoke about the student focusing on facets of Pharmacy and pharmacy profession with their challenges, opportunities for future pharmacy profession. On the eve of world pharmacist day by having collaboration with HDFC bank one blood donation camp is held at our JCP campus on 24.09.2022. During this blood donation camp forty-one units of bloods are collected. This Programme was conducted by Programme co-ordinator Mrs Manasi Khadanga and hosted by Mrs Mazma Begum.



PIC-1 CELEBRATION OF WORLD PHARMACIST DAY



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE



PIC-2 BLOOD DONATION CAMP ORGANISED HAVING COLLABORATION WITH HDFC BANK





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE

61_{st} National Pharmacy week Dt: 20_{th} November to 26 th November

61st National Pharmacy week (NPW) was celebrated at Jeypore college of Pharmacy from 20th November to 26 th November with having the theme "Pharmacy of the world- India". This celebration was started by organising a Free Medicine Distribution Camp at Keraput village of Rondapalli on 24th November 2022. Where 66 no of Patients are gathered and in Prsence of Dr. Bibuti Ku. Rath (BHMS) of Rabanaguda CHSC screened themselves and received the medicines as per the prescription of the Doctor. With the constitution one quiz is also organised on the eve of National pharmacy week where the students re participated in huge no and from them Mr. Dinesh Ku Paricha B.ph 2nd sem, Mr Ankit Panda B.ph 7th sem secured the winning positions. On 26th November the closing ceremony was arranged at our JCP campus. Where Mr Bibhuti Ku. Rath (BHMS) CHSC Rabanaguda invited as chief guest and Mr Sarada Prasad mall (Senior Pharmacist) Rabanaguda placed as chief speaker. The audience listened the lines from our guest on the dice effectively. This Programme is concluded by giving the prize and certificate to the the winning students to encourage their potentiality. At last Mr Sujit ku. Martha wind up the meeting by giving the vote of thanks to the audience.



PIC-1 GUEST FOR NATIONAL PHARMACY WEEK CELEBRATION.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE



PIC-2 PRIZE DISTRIBUTION TO STUDENTS FOR QUIZ COMPETATION.



PIC-3 AUDIENCE FOR CELEBRATING NPW.



Source of the second

Jeypore College of Pharmacy

(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE



PIC-4 DOCTOR SCREENING THE PEOPLES OF KERAPUT.



PIC-5 STUDENTS DISTRIBUTING MEDICINES TO PATIENTS.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE

****	TELEPORE COLUMN	The state of the s
	JEYPORE COLLEGE OF PHAR	MACY, RONDAPALI
	EVENT NAME: National	Phasimacy Week DATE: 20 to 20 thow &
and the	0 0	
	THE PLANTING OF	the world—India
SLNO	STUDENT NAME	REGDING STUDENT SIGNATURE
01	oflyge human souling	
	V Chouri sai sekhar	
02		1903268091 v. Govrei Sai sekhar
03	Busit Biswys	1903268086 Sumit Bismas
84	Priyanshysmivastana	1963268662 Priyanshu shrivaslava
05	Day to, Mohanta	1903268006 Ajoy Kumohanty, 4
00	Boxence no health	1 1003782051 Borglin hoper
	Blue to Magni	101085 EROSE BILDICE MARKIN
OB	Lovets 3000	1010 57 80 84 Single Bona
09	Anijit mohanny	1903.268017 Anijit mohakam
-10-	Growfanis Jano	1903268041 Gowlanti Jani
11	Pratikshya Pujarei	1903268061 Profixshya Pujani
12	Nasha Faha	1903265056 Misha Scha
13	SMALL B. Patacik	1903265082 SKUH B. P. taalle
14	Gullan Ku. Sahoo	1903268042 Frussan Ku, Cahoo
15	chinnaya Ku. Sahre	1903268028 Chiumaya Ky. sahu
16	Gusterway Pangarahi	1903258043 Gruptestedax Pausgrahi
17	Saloni Wash	2003266031 Jahoni Dash
18	meghenay soci	20036801 Mighanaf Ruet
19	Auto a la Contago	20326802 Anhaya xu. Daricy era
	Aditya Ku Nayak.	2003268001 Aditya Ku. Nayak.
21	Aditya Ku Nayak.	200326Var Sarat Ku Madli
	Nikhil ku. Brai	200326803 Niklil kurar Bhois
23		300 3268 013 Jandey mondal
34	Tankup Mondal Shipananda Panda	20032(8037) Shibananda Panda
25	Octosish poethon	2003268060 Debosish Padh
-36-		DOG STEROOF YMOLO YOUR
70	hill Olive	2003262022 Nibeolita Chakrabanti
28	Nibedita Chaknabareti	2003268036 Saureta Maharana
29	sarceta Matatagana	2003264036 SCITPHE NCTICE CONCE
		•
1,	4.	* :
		. '
	.*	*.
	* * *	1
	٠.	





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
HUMAN VALUE

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - Pep/2211/162N

Date: - 19.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "National Pharmacy Week" on 20.11.2022 to 26.11.2022 at our college campus at 11.00

A.M.

Principal PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Copy to Buses / Notice boards.

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - Dep/2211/162N

Date: - 19.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "National Pharmacy Week" on 20.11.2022 to 26.11.2022 at our college campus at 11.00

Je.

A.M.

SEVERARE COLLEGE OF PHARMACT

REVENUE IN THE PROPERTY IN THE PROPERTY COPY to Buses / Notice boards.



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST, ODISHA-764002

HUMAN VALUE

11/24/22, 4:21 PM

DocScanner 24-Nov-2022 2-20 pm.jpg



JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust)
Approved by Government of Odisha & All India Council for Technical Education, New Delhi
Affiliated to Biju Pattnaik University of Technology & Pharmacy Council of India, New Delhi

Ref. No. : Jep/2211 | 8020

Date: 24 | 11 2022

To The Medical Officer CHC, Rabanaguda Dist:Koraput

Sub: Deputation of Dr.Bibhuti Kumar Rath, BHMS for Free Medicine Distribution camp at Keraput.

Respected Sir / Madam,

With reference to the subject cited above, I am to bring to your kind knowledge that the "National Pharmacy Week" is being celebrated during the third week of November each year by each pharmacy institution / organization. Accordingly, we have proposed to celebrate the National Pharmacy Week from 21.11.2022 to 27.11.2022, during the celebrated week, we proposed to make free drug distribution to 100 patients on 24.11.2022 and the students and staffs will be disbursed the drugs from provided place at Keraput. So it is our sincere request to you kindly depute Dr.Bibhuti Kumar Rath, BHMS for the above said programme for prescribed the drug to the patient.

Thanking you. Yours faithfully

PRINCIPAL HYPORE COLLEGE OF PHARMACT ROHDAPALLI, JEYPORE (K) 784002

> Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha Ph.: (08854) 246956, 246602, Fax: (06854) 246955,

Visit us: www.pharmajeypore.org, E-mail: pharmajeypore@yahoo.co.in, principal@pharmaj

(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST, ODISHA-764002

HUMAN VALUE



JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust)

Approved by Government of Odisha & All India Council for Technical Education, New Delhi

Affiliated to Biju Pattnaik University of Technology & Pharmacy Council of India, New Delhi

of. No. : (Pep/2211/7980

Date: 23/11/2022

To The Sarapanch Rondapalli Dist:Koraput

Sub: Celebration of 'National Pharmacy Week"2022.

Respected Sir / Madam,

With reference to the subject cited above, I am to bring to your kind knowledge that the "National Pharmacy Week" is being celebrated during the third week of November each year by each pharmacy institution / organization. Accordingly, we have proposed to celebrate the National Pharmacy Week from 21.11.2022 to 27.11.2022, during the celebrated week, we proposed to make free drug distribution to 100 patients on 24.11.2022 and the students and staffs will be disbursed the drugs from provided place at your village with our own arrangements.

I would therefore request you to kindly grant necessary permission to organize the Free drugs distribution camp at your village.

Thanking you.

Yours faithfully

Principal

Anuncy Halla



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

HUMAN VALUE



JEYPORE COLLEGE OF PHARMACY, RONDAPALI

FEED BACK FORM

EVENT NAME: Notional pharmacy

STUDENT NAME: Akhaya vu. Dandousena

DATE: 26/11/2022

REGD NO: 2003268052

Please rate the following on a scale of poor to excellent:

Jeal



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
GENDER

INTERNATIONAL WOMEN'S DAY March 8th 2022

The international Women's Day was celebrated at Jeypore College of Pharmacy on 8th March 2022 on the theme "Gender equality for today for a sustainable tomorrow". The aim of this celebration is to create a sensitization about women on society. The programme is be ginned by the inaugural speech by Mrs Manasi Khadanga(Assistant Professor) to inspire and encourage the women to keep consistently moving in life and continued with the speech of Principal Dr Sangram Keshari Panda, Mrs P.K Sahu (Associate Professor), Mazma Begum (Assistant Professor) . A Discussion was carried out by the chair person and audience for the enhancement of study cases in professional field. The meeting is concluded with cake cutting and distributing sweet and snacks to the audience.



PIC -1 CELEBRATION INTERNATIONAL WOMENS DAY



PIC-2 SPEECH BY OUR LADY STAFF.



PIC-3 CAKE CUTTING





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

THENE: Gender equality today for a sustainable tomo-

		RIGDSO	STUDENTSICNATURE
1.70	STUDENT NAME		
1.	Aneessa Maria	2003268053	Aneessa Maria
2.	Eshwari Behera	2003261069	Eshwari Beherca
3.	Gertaniali Nayak	2003261070	Creetaniali Nayak
2.	Suphashoen sadhi	2503268094	Supraulie Gadhi
<u> </u>	Subhalhor, Adolhi	2003260047	Janustice Chosh
51.	Janustree Colosh	1903268093	Manali Ghadai.
6.	Manale Chadal	1403T08042	
耳.	Shuit B. Pashaik-	1903268082	Sent B parant
8.	Anjak Rath	1903268014	Anjali Rath - Sonali Safapatus
q.	Sonali Sodanatty	1903268079	Somali Satapathy
10.	Some Steamen	1903268056	
	Nishon Sahar Mahamit	19006800	Roomand market
-11.	1301210 10000000	1903268089	Truph Pani Mohanty
12.	Trough Rani Mohanty	1003268089	Sweta Jora
13	Swella Jana	1903268087	Deeptiskha Nayak
14-	Deephisicha Mayor	190326834	DeepHistoria Nageon
15.	Marthulita Kingh	1903268049	Madhelika Sirgis.
16	Goutami Jani)	1903268041	Goutami Tani
17.	Pratikhya Pujari	190326 8061	Ruatkehya Rujari
-17	Jeiannaga		()
		-	
		-	
	1		1

Principal
Principal
Principal
Interest General Control
Principal Control
Principal Control
Principal Control
Principal Control
Principal



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

JEYPORE COLLEGE OF FHARMACY

NOTICE

Ref. No: - 9 cg | 2203 | 021N

Date: - 07.03.2022

All the students & Staff (Ladies Only) are hereby informed that the Womens Day Celebration will be held on 08.03.2022 at 3.00 P.M. to

4,00 P.M in the B1 class room.

Principal PRINCIPAL .

INNIE ENTRE C. PARENTA

NOTICE Buses / Notice boards.



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

Women's Equality Day 26.08.2022

Jeypore College of Pharmacy has celebrated Women's Equality Day on the dated 26.08.2022. Gender equality and women's rights are key to addressing the society to be developed. For this year theme of Women's Equality day is "thanks the women in your life". For this event from the office of District Social welfare Mrs Gayatri Bahinipati CDPO of Borigumma is joined with us. She is working as CDPO of Borigumma block. Our programme was started with the inaugural speech of Mrs Mazma and then the meeting was progressed with the speech of our Principal sir & Gayatri madam. In her speech she addressed our students with laws and orders how to eradicate the women's violence from society and the methods to strength the emotional state of women to PICht with any difficulty. In this Programme thirty five no of girls students are participated. This programme gives a light to our girls students.



PIC-1 FELICITATION TO CDPO MRS GAYATRI BAHINIPATI.



PIC-2 SPEECH BY MRS GAYATRI ON WOMEN'S EQUALITY DAY





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

THEVE: Gender equality today for a sustainable tomo-

1.50	STEPRATATE	BLCD SO	STUDIOL STATE	-220
	Aneessa Maria	2003268053	Aneessa Maria	
2.	Eshani Beheta	2003268009	Eshwari Beherca	
Q.	Gortagiali Navak	20032610 to	Creotopiali Nauak	
3,	Gertaniali Nayak Subhakhren padhi	A503268044	answere Ghost	
51.	Tangetyce Cylosh	2003269047	anustice vinosing	
6.	Mamale cenadal	1903268093	Mamali Ghadai.	
7.	Suit B. Papaik-	1903268082	Sent B patrail	
8	Anfall Rath	1903268014	Anjali Rath -	
q.	Senali Scatemathy	1903268079	Nisha Saha.	
10.	Nisha Sahar Novany	190320803	Bout that he waster	2
1.	Trupti Ravi Mohanky	1903268089	Tough Dani Mohart	1
13.	Susta Jena	1903268087	Cillota lera	
10	Deephisicha Nayar	1903268034	Doodtick ha Nollak	1
14.	Machilita Singh	1903268049	MATRICIAN STAD	
16	Croutami Jani)	1903268041	Goutami Tani	
17.	Pratikhya Pujari	190326 8061	Poratikehya Ruja	<u>u</u>
	, 0 1		0	
		-		
				-
				_
	The state of the s			
				-
		-		
		-		
		The state of the s		
				-
				-1
			1	03 20

PRINCIPAL INFORESSILENCO PREMICY INFORMANI, INSPECTOR (1976-1992)



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

LUCA.		COLLEGE OF I						
EVE	The Section of Section 1997	FEED BACK FORM			DATE: 36 08 2022			
S.V.	EVENTN	EVENT NAME: Woman's Equality						
Line Co	CTUDEN	STUDENT NAME: Ojaswin: Sunani				REGD-NO: 5/0326 805		
E IL SELL BEAUTY	STUDEN	I MAINE. Office	- less Co	one to excelle	nt:			
	Plea	se rate the followi						
	Poor	Average	Good Ve	ry good	Excellent			
-	_ 1	2 ne experience fr	3 om the event?	4	5	·		
1.	How was ti	ie experience ii	1 3	4		5		
1	1	- tho	event?					
2.	How enter	taining was the	Event.	4		5		
. [1	2		-		•		
- 3.	Did this event meet your expectation?			1		5		
	•	2	3	4				
4.	Any sugge	stions for future	programme?			· ·		

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - JCP/ 2208/101N

Date: - 25.08.2022

All the students& Staff (Ladies Only) are hereby informed that the Women's Equality day will be held on 26.08.2022 at 3.00 P.M. to 4.00 P.M in the B1 class room on the theme: "Women's Equality".

Principal
PRINCIPAL
TYPORE COLLEGE OF PHARMACT
| MINAPALLI, INTEREST (N. 764002
Copy to Buses / Notice boards.

RONDAPALLI, JEYPORE (K) 764002

INTERNATIONAL DAY OF ELIMINATION OF VIOLENCE AGAINST WOMEN. DT: 25.11.2022

Jeypore college of Pharmacy observed "International day of elimination of violence against women" at Rondapali. Where twenty eight no of women's are gathered to celebrate this day. Mrs Manasi Khadanga Asst professor of Jcp and Mrs Pratit kanchan Sahu Associate professor of JCP delivered a speech on this programme by focusing the articles and laws of our Govt to provide protection to the women's against domestic and social violence. With the women's of Rondapalli a dissuction was held to aware them how to take stand against violence.



PIC-1 MRS MANASI KHADANGA ADDRESSING THE GATHERING.



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
GENDER



PIC-2 GATHERING AUDIENCE AT RONDAPALLI.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
GENDER



PIC-3 (I) JCP LADIES STAFF WITH VILLAGE WOMEN OF RONDAPALLI.



PIC-3 (II) JCP LADIES STAFF WITH VILLAGE WOMEN OF RONDAPALLI.



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
GENDER

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: 10p/2211/167N

Date: - 24.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "International Day For Elimination of Violence Against Women" on 25.11.2022 at Rondapalli at 2.00 P.M. to 3.00 P.M.

IETPORE COLLEGE OF PHARMACY

29H0024UL 1579055 (%) 784002 Copy to Buses / Notice boards.



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

JEXPORT COLLEGEOF PRIARMACY, RONDAPALL

THE TENT : Softanie Sono day against with 35 | 11 2000.

	41 (-11 (-11 -1)	Personal III of CTAPELSSIO
-1	Lexini Perthabi	1 Loran Pattonia
ė.	Kouselya Pobje	4-9
3	Ballimba poose	The same of the sa
Ч	Kemerlo Khadi	
5	Samurta Pangu	या की वासि
6	Soundi Pangi	satti (acros)
7	Hitula Bhumia	ଶ୍ୱିତ୍ରଲା ଭୁଡ଼ି ଆ
8	Wayabadi Pangi	Down of 123
9	Garage Padans	
10	Laxmi harijan	ଲ୍ଲ୍ଲ ହୁର୍ଚ୍ଚିତ୍ରନ
11	Bounda poodhan	
12	Tuley? pusciós	ପ୍ରୁ ଳିଥା ପୁ <i>ଲାରି</i>
13	2 Subarna Pujariº	
14	Dameno Predhan	100
15	Damuni Pujersi	8

PRINCIPAL
PRINCIPAL
JEYPERE COLLEGE OF PHARMACY
RONDAPALLI, JEYPERE (N) 764082

PRÍNCIPAL JEYFORE COLLEGE OF PHARMACY RONDAPALLI, JEYFORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

GENDER

JEYPORE COLLEGE OF PHARMACY, RONDAPALI

EVENT NAME:

DATE:

THEME:

54.5	SACIE OF THE PERSON.	SIGNATURE TINGER IMPRESSION
16	Subhadra pugensi	
17)	Gousi pujest	Geun pujani
15)	Sunita Pujosi	Sunita putanze
19)	Gousi Pando	Your Panda
20>	Roymi Kottli	Rashme Whati
217	Kouselya Pusasis	Kaushadya RuJarci
225	Runi Pangi	की वानि
23/	Bubasna pende	Grat Elli
aus	Kanaradye kendu	Marie Marie
25>	Damei Harri Jan	
26)	Tuni Hansa	
27>	Supriya Dala.	
285	Bismita Sabar	
).

PRESCREAL
PRINCIPAL
JETPEE COLLEGE OF PHARMEN
RONDAYALL, JEYFORT (10, JECO2)

PRINCIPAL JEYFORE COLLEGE OF PHARMACY RONDAPALLI, JEYFORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT

WORLD ENVIRONMENT DAY

5TH JUNE 2022

On this occasion 5th June 2022, Jeypore college of Pharmacy organised an awareness programme on the occasion of World Environment Day. All the students and faculty members have participated with full energy. Principal Dr Sangram Keshari Panda Present at the Programme. The Programme was started with plantation. The students started planting their saplings in our medicinal garden. Pla cards also prepared by our students to create awareness for the safety of our environment. After this 23 no of students are participated in art competition, where Mr Srikant of B.Ph 7th and Mr Albert Bagh of B.Ph 5th sem secured first and second prize. The Prize and Certificates are distributed to the students. After this our principal sir gave a well researched speech how our environment is today and why we should be aware to keep it in good condition. At the end he took a promise from all students that they never pollute environment and took at the step for its betterment.



PIC-1 DIGNITARIES ON DICE ON WORLD ENVIRONMENT DAY CELEBRATION.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT



$\label{eq:pic-2} \textbf{PIC-2(I)} \ \textbf{PRIZE} \ \textbf{DISTRIBUTION} \ \textbf{TO} \ \textbf{STUDENTS}.$

Jan

PRINCIPAL
JEYPORE GOLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

ENVIRONMENT

EVENTAME: World Environment Day DATE: 5,06.202:

	THENE Only one	Earth	
410	CLIBEAT VANI	REGUNO	STEDIAL SIGNATUR
	Ashutosh Ponda	200268058	Ashutosh Ponda
01		2003268639	Sily Schu
02	Sly Sahu Corredor	200326906	Billash Sarraul
03	Bikash Sandan	2003268066	Webusish padhar
04	Debasish poolhan	2003261038	Sibel Mondal
0.5	Sibre Manobel	2003248059	12 sentin mass.
- 06	B. Shyan Kumar	2003268050	Maurieur rungip
07	Abhijest Kuldip	2509766044	all mashed partie
-04	Subbashue pathi	2003261070	Gootaniali Mayak
- M	Gertanjali Nayak	2003268053	angessa Maria
10_		2003268069	Eshiviri Genera
!!-	Eshopri Behera	2003268047	Tanual ree Ornosh
12 ·	Tanustree Gillian	2123268006	Dikhu bibbut Panigrahl
!3	Biblica biblicali Panigrahi	203201095	Luanimode postarath.
!4-	Syamorcunda pattanalk	2003268081	parmileanta samas.
15	Agymi Kanta Samal	2003268098	This inv contu
16_	T. VNEK KAJU		Dammerdren Meher
17_	Ramchandttel Mende	2003208019	Ramchandra Meher
16	s. Liza Patria	0193508001	Etishape mohapora
19	Etishnee moharutra Ottoti sadanga	\$00356807	THAT Gadaral
- 20	Va-en entra gr		
-			
		1	
		- //	
		1	

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (N) 764002

PRINCIPAL JEYFORE COLLEGE OF PHARMACY RONDAPALLI, JEYFORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - Tep 2206/048N

Date: - 01.06.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "World Environment Day" on 05.06.2022 at our college campus at 11.00 A.M. Theme: "Living Sustainably in Harmony With Nature". On that day drawing competition will be held at 12.00 noon at B1 class room.

PRINCIPAL

REYPORE COLLEGE OF PHARMACT

20MDAPALLI, JEYPORE (R) 764002

Copy to Buses / Notice boards.

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

ENVIRONMENT

NI DININAMI. World Environment Day BATE 05/06/9 NI DININAMI: Home Siba Mandal. REGDNO: 20032 Please rate the following on a scale of poor to excellent: Prov. Acrase Good Vers good Leedlent 1 2 3 4 5 How was the experience from the event? 1 2 3 4 5 How entertaining was the event?	26803
Pow Corago Cond Version I vertical 1 2 3 4 5 How was the experience from the event? 1 2 3 4 5 How entertaining was the event?	
How was the experience from the event? 1 2 3 4 5 How entertaining was the event?	
1 Z 3 4 5 How entertaining was the event?	
1 2 3 4 5 How entertaining was the event?	
1 Z 3 4 5 How entertaining was the event?	
2 3 4 5	
Did this event meet your expectation?	
1 2 3 4 5	

PRINCIPAL JEYFORE GOLLEĞE OF PHARMACY RONDAPALLI, JEYFORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

ENVIRONMENT



PIC-2(II) PRIZE DISTRIBUTION TO STUDENTS.

PRINCIPAL
JEYPORE GOLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT

VAN MAHOTSAV 6TH JULY 2022

The students of Jeypore college of Pharmacy celebrated "73rd Van Mahostav" day on 6th July 2022 in the college premises. A "Go Green" initiative was introduction in the college to promote afforestation programme and the growth of trees. 22 no of saplings which included bela plant, mango plant, amla plant, Jack fruit plant and many varieties of plants are planted by the students. Total twenty (20) no. of students are participated in this Mahotsav.



PIC-1(I): PLANTATION BY STUDENTS

PRINCIPAL

JEYPORE GOLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT



PIC-1(II): PLANTATION BY STUDENTS

PRINCIPAL

EYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT

WORLD NATURE CONSERVATION DAY

28_{TH} JULY 2022

On 28th July 2022, on the occasion of world nature conservation day, Jeypore college of Pharmacy organised a seminar talk on the theme" Forests and livelihood: Sustaining people and planet". The main objective is to increase awareness about the conservation of our natural resources and encourage sustainability. On this day 34 no of B. Phram and M.Pharm students are participated in the seminar talk, from the students Rajesh ku. Nayak and B.Shyam Kumar got 1st and 2nd prize and certificates are distributed to the by our Principal and vice principal sir. At last Mrs Manasi Khadanga delivered a speech by laying stress on creating healthy environment and its sustainability.



PIC-1: STUDENTS DELIVERING SPEECH

PETNICIPAL JEYPORE GOLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
ENVIRONMENT

Rondapalli, Koraput, WHM7+344, Bana Vihar, Jeypore, Odisha 764002, India Jeypore Odisha India 30°C 80°F 2022-07-28(Thu) 02:53(pm)

PIC-2: PRIZE DISTRIBUTION





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

WORLD AIDS DAY 1.12.2022

Jeypore college of pharmacy Celebrated "World Aids Day" on First December 2022 with having the theme "Equalize". This observation indicates the inequalities which are holding the ways back progress in ending AIDS. This opportunity combines us to PICht against HIV AIDS. To give more support to the theme students of JCP performed a rally in nearest Rondapalli Village. Where 23 students are participated. They go point to point contact with villagers of Rondapalli to aware them about HIV AIDS.



PIC-1 STUDENTS ON WORLD AIDS DAY.



PIC-2 STUDENTS DOING RALLY IN RONDAPALI.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

CONSTITUTION DAY DT: 26.11.2022

On 26th November 2022 Jeypore College of Pharmacy observed "Constitution Day". To celebrate this day Principal and all staff and students of Jcp are gathered at the seminar hall of JCP. The Programme was started by the welcoming speech of Dr, Prithwiraj Mohapatra Sir IQAC head of JCP, then the flow is continued by the speech of principal sir and Programme Coordinator Mrs Manasi Khadanga. The main aim is to celebrate this day is to uphold the importance Of our constitution and providing knowledge to the students in regarding the articles of our Indian Constitution. Mrs Manasi Khadanga Programme Co-ordinator read the pledge for our students. Mr Albert Bagh of B.Ph 7 th sem delivered a speech on the history of our Constitution. All the staffs and students of JCP admire our Constitution. This programme is anchored by Mrs Mazma Begum.



PIC-1 CELEBRATING CONSTITUTION DAY.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS



JEYPORE COLLEGE OF PHARMACY, RONDAPALI

THEME: - Day. DATE: 26.11.2022.

SLNO	, SICELLA INVINIE	REGDING STUDENT SIGNATURE
01	Stillyon gurose sacher.	403268018 Stellyo humane Souhus
02	SUM) of Bitwal	190326508 Qunit Biswas
03	V. Gouri Sai celchan	1903168091 Acrowni Sai sokhar
ay	Kanfaire Chare	1003) Gene Karfait a Crain
05	Kanfairer Crano Abishek Murgo	190326804 Abisheb tranger
06	Primasuu Shringtone	190346062 Priganghy smalaskia
07	Chinmaya kumar Jaku	1903268028 Chinneyes ku. Jahr
06	Gupteswar Panigrani	19628640 42 Chateswar panigrani
09	Cl. Ultres	1903261029 Q. UHEJ
10	Rudra Travad Nishra	1903268067 Rudra Froyad Mishrea
11	Maket Cherry	1903268052 Mohis shukla
12	Sorali Sadapathy	1903268079 sonali satapathy
13	Rahul Ray	190 USIOGS - Pahul Roy
14	Manamad Kasim	6103268050 CHALLMAN Kashy
15	Debabrata Kabin	1903268030 Deherbrute Kasily
16	Albert Bach	1903268000 Albert Bosh
17	Nirupama Acharya.	190326FOR Nirupama Acharya
u	Borsha monanty	1903201022 Baycha Mohanty
19	sonali satopathy.	190326004 Sonal Satapathy
20	Pratikelya Phinci	19032 68061 Pratikahya Pijari
21	Pratikinja fignei Goutanii Jani	1903268041 GOUTONT Jake
22	Micha Sala	1903268056 / Nisha saha 1
23	Druits B. patnaik.	1903268082 Suils B. patrick
24	Steptisikha Nayak	1903268034 Seentisikha Mowak
25	Sweta Jena	1903268087 Quela Jerg.
		l l
		1
		× .
•		
•		
-		
•		
•		

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
ROHDAPALLI, JEYPORE (K) 764002

PRINCIPAL

JEYPORE COLLEGE OF PHARMACT

RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

JEYPORE COLLEGE OF PHARMACY, RONDAPALI FEED BACK FORM

EVENT NAME: Indian Constitution Day DATE: 26th. 11. 2022 STUDENT NAME: Abhishek Murgo REGD NO: 1903268000 REGD NO: 1903268004

Please rate the following on a scale of poor to excellent:

Poor	Average	Good	Very good	Excelle	ent
1	2	3	4	5	
How was th	e experience f	rom the ev	ent?		
1	2	3	3	4	5 0
How enterta	aining was the	event?		•	
1	2	3	3	4	1 5
Did this eve	nt meet your e	xpectation	?	•	
1	2	3		4	
ny suggest	ions for future	programi	ne?	•	
	est me,	• 0			

RONDAPALLI, JEYPORE (K) 764002





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - Jef/2211/189N

Date: - 25.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "Constitution Day" on 26.11.2022 at our college campus at 11.00 A.M.

PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

Copy to Buses / Notice boards.

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - 9er/2211/169N

Date: - 25.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "Constitution Day" on 26.11.2022 at our college campus at 11.00 A.M.

PRINCIPAL .

POPPERSONALLA

Copy to Buses / Notice boards.

11/2022

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
PROFESSIONAL ETHICS

LEPROSY DAY 30TH JANUARY 2022

World Leprosy Day is celebrated on the last Sunday of January in 2022 at Jeypore college of Pharmacy with the theme" United for Dignity". This is the day to raise awareness about the disease and take a stand for an end to leprosy- related stigma and discrimination. For this awareness programme Sankaudi villagers are welcomed to the college premises. Dr. S.K Panda Principal delivered a speech on the theme. Along with principal sir staffs creates an awareness on how to take precautionary measures to eradicate leprosy from society. Arround 23 no of Sankaudi villagers are gathered in this programme. The meeting was concluded by Mr. K .Mutyallu rao by offering votes of thanks. This celebration creates a awareness among the staffs and peoples of Sankaudi village.



PIC-1 ADDRESSING TO VILLAGE PEOPLE FOR ERADICATION OF LEPROSY BY OUR STAFF

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

JEYPORE COLLEGE OF PHARMACY, RONDAPALI

EVENT NAME: LEPROSY DAY
THEME: United for Dignity.

DATE: 30. 01. 2022

· · · · · · · · · · · · · · · · · · ·
SIGNATURE / FINGER IMPRESSION
Vreuntgafneik
J. Shin
- Titu meharone
skidnaka m
Yeshba Kamay
papy Biswel
framatican Petari
sabham Biswal
Barnitz Mahartaha
Rame onugli
Dambaru Kachin
Dilip Ray
Scraip neight
Somendar Mahanandar
Bhagaban pangio

PRINCIPAL
JEYTORE COLLEGE OF PHARMACY
RONDAPALLI, JEYTORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS



JEYPORE COLLEGE OF PHARMACY, RONDAPALI

EVENT NAME:

DATE:

THEME:

SL NO NAME OF THE PERSON	SIGNATURE / FINGER IMPRESSION
Lakhi Bagdaria	1900 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Namita Pradhani	No. of the latest and
Bhagabati Gadba.	
chandrama pujari	
ManjulataSahu	
Subranga Panda	
Tuni Behera	
Partha Panigrahi	
Bhima Majhi	
Brounda Pradhani	
	-
	-

PRINCHAL 01 2022

PRINCIPAL JEYPORE GOLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

WORLD IODINE DEFICIENCY DAY 21.10.22

World iodine deficiency day is celebrated in Jeypore College of Pharmacy on 21.10.22 by having the theme" Thyroid and communication". Moto of this celebration is to spread awareness of iodine and its importance in our daily diet. This celebration is begins by the welcome speech given by Associate Professor of JCP Mrs Pratit Kanchan Sahu.In her speech she delivered about the deficiency disease occurring due to lack of iodine in our body. Then this programme was continued by the speech of our Principal Sir Dr Sangram Keshari Panda. In his Speech he gave focusing to the significance of iodine in our daily diet, and irradiation of thyroidism and goitre disease which are mainly occurred due to the deficiency of iodine in our body. By giving raise to this programme our students also delivered talk on the awareness of iodine deficiency. Mr Deepak Polei of B.ph 4th sem, Mr Amitanshu Sahu of B.ph 2nd sem presented their ideas in a very effective way. At last Mrs Manasi Khadanga Asst.Professor of JCP concluded the meeting with vote of thanks.



PIC-1 DR SRILATA SAHU DELIVERING SPEECH ON WORLD IODINE DEFICIENCY DAY.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

WORLD PHARMACIST DAY 25TH September 2022

On 25th September 2022 Jeypore college of Pharmacy celebrated "World Pharmacist Day" having the theme "Pharmacy united the Nation for a healthcare world". At the beginning of the function Principal Dr Sangram Kesharii Panda presented his speech enriched with the theme provided this year. Our Chief Guest Senior Pharmacist Mr. Sanjeeb Ku Subudhi and Chief Speaker Mr.S. Satish Rao Senior Pharmacist DHH.Jeypore are being present with us. Mr Sanjeeb Ku. Subudhi spoke about the student focusing on facets of Pharmacy and pharmacy profession with their challenges, opportunities for future pharmacy profession. On the eve of world pharmacist day by having collaboration with HDFC bank one blood donation camp is held at our JCP campus on 24.09.2022. During this blood donation camp forty-one units of bloods are collected. This Programme was conducted by Programme co-ordinator Mrs Manasi Khadanga and hosted by Mrs Mazma Begum.



PIC-1 CELEBRATION OF WORLD PHARMACIST DAY





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS



PIC-2 BLOOD DONATION CAMP ORGANISED HAVING COLLABORATION WITH HDFC BANK

Jean

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

WORLD HEART DAY 29TH September 2022

Jeypore college of Pharmacy celebrated world heart day on 29th September 2022, with the theme "Use Heart for Every Heart" for creating awareness about cardiovascular diseases and their way for precaution and prevention. By continuing this celebration Miss Rasmita Das Asst.Prof of jeypore college of Pharmacy welcomed to the audience by her welcoming speech. Mr Subham Sourajit Asst prof of Jeypore college of Pharmacy explained briefly about the cardiovascular disease and the etiology to control the spreading of this disease. He also spoke about exercise, maintain diet, stress free life are the major ways to keep our heart healthy. Human heart model making competition is organised on this day. Where eleven no of models of human heart are demonstrated by our UG students. From them Miss Bagmi Baduli and Miss Anesha Maria occupied the first and second position respectively. Prize and certificates are distributed to all the participants. At the closing ceremony Mrs Manasi Khadanga Asst Prof cum Programme coordinator delivered the vote of thanks.



PIC-1 DIGNITARIES ON THE DICE ON WORLD HEART DAY



PRINCIPAL
JEYPORE GOLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS



PIC-2 AUDIENCE OF THE CELEBRATION.



PIC-3 STUDENTS RECIVING CERTIFICATE FOR HUMAN HEART MAKING MODEL COMPETITION.



PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764092



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002
PROFESSIONAL ETHICS

61st National Pharmacy week

Dt: 20th November to 26 th November

61_{st} National Pharmacy week (NPW) was celebrated at Jeypore college of Pharmacy from 20_{th} November to 26 th November with having the theme "Pharmacy of the world- India". This celebration was started by organising a Free Medicine Distribution Camp at Keraput village of Rondapalli on 24_{th} November 2022. Where 66 no of Patients are gathered and in Prsence of Dr. Bibuti Ku. Rath (BHMS) of Rabanaguda CHSC screened themselves and received the medicines as per the prescription of the Doctor. With the constitution one quiz is also organised on the eve of National pharmacy week where the students re participated in huge no and from them Mr. Dinesh Ku Paricha B.ph 2_{nd} sem , Mr Ankit Panda B.ph 7_{th} sem secured the winning positions. On 26_{th} November the closing ceremony was arranged at our JCP campus. Where Mr Bibhuti Ku. Rath (BHMS) CHSC Rabanaguda invited as chief guest and Mr Sarada Prasad mall (Senior Pharmacist) Rabanaguda placed as chief speaker. The audience listened the lines from our guest on the dice effectively. This Programme is concluded by giving the prize and certificate to the the winning students to encourage their potentiality. At last Mr Sujit ku. Martha wind up the meeting by giving the vote of thanks to the audience.



PIC-1 GUEST FOR NATIONAL PHARMACY WEEK CELEBRATION.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS



PIC-2 PRIZE DISTRIBUTION TO STUDENTS FOR QUIZ COMPETATION.



PIC-3 AUDIENCE FOR CELEBRATING NPW.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS



PIC-4 DOCTOR SCREENING THE PEOPLES OF KERAPUT.



PIC-5 STUDENTS DISTRIBUTING MEDICINES TO PATIENTS.





(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002

PROFESSIONAL ETHICS

JEYPORE COLLEGE OF PHARMACY, RONDAPALI
EVENT NAME: National Phasymacy Week Date: 20 to 20 Hov 2022
THEME: Phasymacy of the world — India

Of House Knowl Sailer. 1903268018 Abby a knowl aghin. Or Vichouse Sai Schar 1903268081 V. Fouris Sai Schar Of Privanshysmirostana 1903268086 Sumit 3isua. Of Privanshysmirostana 1903268086 Sumit 3isua. OF Real-Prop Notrolly 1903268080 Right humbolist to 1903268008 Right humbolist to 1903268008 Right hold to 1903268008 Right hold to 1903268008 Right hold to 1903268008 Right mohatam OF Anijit mohatana 1903268014 Anijit mohatam OF Anijit mohatana 1903268041 Courtanti Tapi Il Pratikshya Pujanti 1903268041 Courtanti Tapi Il Pratikshya Pujanti 1903268041 Pratikshya Pujanti Il Nisha Fahal 1903268061 Pratikshya Pujanti Il Nisha Fahal 1903268061 Pratikshya Pujanti Il Chinaraya Ku. Sahar 1903268082 Shuth B. Pataalu If Chinaraya Ku. Sahar 1903268082 Chinamaya Ku. Sahar If Chinaraya Ku. Sahar 1903268082 Chinamaya Ku. Sahar If Saloni Dash (1903268031 Jaloni Dash) Is Meghenaul Wood 2003268032 Shuraya Ku. Dandeyaa.	41.20		, political designation of the contract of the
Or Chours sai Sokhar 1903263091 ~ hours sai sekhar Of Priyanshussminoshuu 1903263086 Sumit sisuus Of Priyanshussminoshuu 1903263020 Arjun ku shminoshuud OS day ku Muhaatt 1903263020 Arjun ku shminoshuud OS day ku Muhaatt 1903263020 Arjun ku shminoshuud OS Blivela Nodkh 1000365021 Arjun ku shminoshuud OR Lautela Sona 1903263021 Arjun ku shakku OR Lautela Sona 1903263021 Arjun mahakun OR Lautela Tand 1903263021 Courtanti Tand III Prafikhaya Pujanci 1903263021 Courtanti Tand III Prafikhaya Pujanci 1903263021 Churaya Injanci III Shisha Tand 1903265022 Churaya Injanci III Chantaya Ku Sahu 190326002 Churaya Ku Sahu III Chantaya Ku Sahu 190326002 Churaya Ku Sahu III Sahou Wash 190326002 Churaya Ku Sahu III Sahou Wash 190326002 Churaya Ku Sahu III Sahou Wash 200326002 Churaya Ku Sahu III Sahu Sahu 200326002 Churaya Ku Sahu III Sahu Sahu 200326002 Churaya Ku Sahu III Sahu Masuka 200326003 Shinka Raut III Sahu Sahu Aryak 200326003 Shinka Raut III Sahu Mu Alayak 200326003 Shinka Ku Nagak. 20 Sarah kuma madu 200326003 Shinka Ku Nagak. 21 Sanuhu Masuka 200326003 Shinka Ku Nagak. 22 Sarah kuma madu 200326005 Debaish Pash 23 Shinka Randan 200326005 Debaish Pash 24 Janjun Masukal 200326005 Debaish Pash 25 Sarah kuma madu 200326006 Debaish Pash 26 Octasish Pasham 200326003 Sarah Nohurana 28 Sarah Hahaharana 200326003 Sarah Nohurana	SLINO	STUDENT NAME	REGDING STUDENT SIGNATURE
103 Const Bistury 1903-6808 of Stories Lai sether 05 Funit Bistury 1903-6808 of Privant Mustard 05 Final William 1903-6808 of Privant Mustard 05 Final William 1903-6808 of Privant Mustard 06 Farther North 1903-6808 of Privant Mustard 07 River North 1903-6808 of Privant Mustard 08 Justa Bara 100 2 6808 All Septe 8000 09 Anijit moharam 1903-6804 finit moharam 10 fautaris Jah 1903-6804 finit moharam 11 Phatikilupa Pulanci 1903-6804 of Finit moharam 12 Nisha Fahad 1903-6804 Gentard Tapl 12 Nisha Fahad 1903-6809 Misha (cha 130) 13 Seinth B. Petasik 1903-6809 Misha (cha 130) 14 Chinnaya Ku. Sahu 1903-6809 Chiumaya Ku. Sahu 15 Gulan Ku. Sahu 1903-6809 Chiumaya Ku. Sahu 16 Guptelupay Pantaranah 1903-2809 Chiumaya Ku. Sahu 17 Golon Rash (2004 2003-680) Jaloni Dalh 18 Meghanad Rocal 2003-6803 Shungar Va. Pantaranah 19 Chinaya Nu. Dandyaa 2003-6803 Shungar Va. Pantaranah 20 Chinaya Nu. Dandyaa 2003-6803 Mishi kuran Tross 21 Jahun Mandal 2003-6803 Mishi kuran Tross 22 Sahu Nunan madul 2003-6803 Mishi kuran Tross 23 Misha Rasharah 2003-6803 Mishi kuran Tross 24 Janjun Mandal 2003-6803 Jahun Andu 25 Shishanda Randa 2003-6803 Jahun Andu 25 Misha Chakrabarah 2003-6803 Mishi kuran Tross 27 Shishanda Randa 2003-6803 Jahun Andu 28 Nishadia Chakrabarah 2003-6803 Jahun Moharaha Panda 28 Sarah Nanan Madul 2003-6803 Jahun Moharaha Panda 29 Sarah Nanan Madul 2003-6803 Jahun Moharaha Panda 29 Sarah Nanan Madul 2003-6803 Jahun Moharaha Panda 29 Sarah Nanan Madul 2003-6803 Saraha Nanandal 29 Saraha Nanan Madul 2003-6803 Saraha Nanandal		of wyge human soulive.	1903269018 Stally a turned getter.
OS Sunit Gicum 190268086 Sunit Gicum 1903 Griyan Jun Shrivestand OS Gigay ku, Muthanta 190268062 Priyan Jun Shrivestand OS Gigay ku, Muthanta 190268063 Majan ku, Muthanta 190268063 Majan ku, Muthanta 190268063 Majan ku, Muthanta 190268064 Anijit mohadam OQ Anijit mohadam 190268064 Anijit mohadam 190268074 Goutanti Tapi 190268074 Misha (ahada 190268074 Goutanti Tapi 190268074 Misha (ahada 190268074 Goutanti Ku, Cahad 190268074 Goutanti Mada 190268074 Gou	02	V: Chouri sai sekhar	1903268091 V. Govrei Sai sethar
OS BARROS NO HONOR 1903 BARROS REARING HONOR SON BOND BARROS HONOR HONOR BOND BARROS HONOR HONOR HONOR BOND BOND BARROS HONOR BARROS BARROS HONOR BARROS BARROS HONOR BARROS	03		1903268086 Sumit Biswas
OS Broke Nobelly 1903/8902 Brail of Nobelly 1903/8902 Brail of Nobelly 1903/8902 Brail of Nobelly 1903/8902 Brail of Nobel of Start 1904/800 Brail of Nobel of Profession Paper (1904/800) Brail of Nobel of Start 1904/800 Brail of Brail of Start 1904/800 Brail of Start	04	Priyanshysmirastana	1963268662 Privanshu shrivastang
OF BINDER NOUTH 1002 Spore Billow rolly OF BINDER NOUTH 1002 CFOLD BILLOW ROLLY OP Anist Mohumm 190226001 Physickhyp Paper 10 Gautanii Jane 190226001 Physickhyp Paper 110 Gautanii Jane 190226001 Physickhyp Paper 12 Nisha Lahd 190226001 Physickhyp Paper 13 Skuth B. Potoaik 190226002 Shuth B. P. taalik 14 Gulan Ku. Iahoo 190226002 Shuth B. P. taalik 15 Ghori Wash (190226002 Chiumaya Ku. Iahoo 17 Coloni Wash (190226002 Chiumaya Ku. Iahoo 18 Megheunari Noce 20026002 Shuth Dash 19 Chinaga Ku. Dandya 20032600 Jahoni Dash 19 Chinaga Ku. Dandya 20032600 Adiya Ku. Nayaki 20 Chinaga Ku. Nayak: 20032600 Adiya Ku. Nayaki 21 Casa Ku. Mayak: 20032600 Adiya Ku. Nayaki 22 Sasa Kuma Mada 20032600 Adiya Ku. Nayaki 23 Nikhii ku. Baha; 20032600 Debash Pash 24 Janlup Mandala 20032600 Debash Pash 25 Anjana Nome 20032600 Debash Pash 26 Debash Pashan 20036600 Debash Pash 27 Anjana Nome 20032600 Surita Nomerana 28 Alibedita Chakaabacti 20032600 Surita Nomerana 29 Sareta Na Nakaabacti 20032600 Surita Nomerana 29 Sareta Na Nakaabacti 20032600 Surita Nomerana	05	diay to, Mehanta	
OF Such 3000 100 2500 13 Such 3000 09 Anijit mohakam 1903268014 Anijit mohakam 1903268014 Anijit mohakam 1903268014 Gjentanji Tani 1903268014 Gjentanji Tani 1903268014 Gjentanji Tani 190326801 Phatikihya Pujant 190326801 Phatikihya Ku. Cahoo 190326801 Sullan Ku. Cahoo 150 Sullan Ku. Cahoo 150 Sullan Ku. Cahoo 150 Sullan Ku. Cahoo 150 Sullan Pantayah 190326801 Chumaya Ku. Cahu 190326801 Sullan Sullan Pantayah 190326801 Sullan Sullan Pantayah 190326801 Sullan Sullan Pantayah 190326801 Sullan Sullan Pantayah 190326801 Sullan Sullan Sullan Pantayah 190326801 Sullan Sullan Sullan	00	Rockson no book	1 1002 same altered for made som
Og Anijit mohnum 190326801 Anijit B. Pataalu 190326808 Alisha Seha 190326802 Anisha Ku. Cahoo 190326809 Chiumaya Ku. Cahoo 190326809 Chiumaya Ku. Cahoo 190326809 Chiumaya Ku. Cahoo 190326803 Gynteiwax Panigmahi 190326803 Gynteiwax Ru. Dandya 200326803 Gynteiwax Ru. Dandya 200326803 Gynteiwax Ru. Dandyak 200326803 Gynteiwax Ru. Dandyak 200326803 Gynteiwax Ru. Dandyak 200326803 Gynteiwax Ru. Dandyak 200326803 Hikili kurar Thois 100326803 Debasish Panka 200326803 Debasish Panka 200326803 Debasish Panka 200326803 Sarrita Naharanahi 200326803 Sarrita Naharanahi 200326803 Sarrita Naharanahi	22	Bluebe mading	Mean example single ready
10 Gaufanii Jani 190326804 Brijit mohukam 110 Gaufanii Jani 190326804 Gautanii Jani 111 Pholikilaya Pujanii 190326804 Ogatanii Jani 112 Nisha Eaha 190326606 Prafikaliya Pujani 121 Nisha Eaha 190326606 Prafikaliya Pujani 131 Sultan Ku. Cahao 190326606 Chiumaya Ku. Cahao 141 Chinnaya Ku. Cahao 190326608 Chiumaya Ku. Cahao 141 Chinnaya Ku. Cahai 190326608 Chiumaya Ku. Cahai 141 Salori Wash 200326608 Chiumaya Ku. Cahai 152 Sultan Ku. Sahai 190326608 Chiumaya Ku. Cahai 163 Sultan Ku. Sahai 190326608 Chiumaya Ku. Cahai 164 Salori Wash 200326803 Sultan Sarat 175 Salori Wash 200326803 Sultan Sarat 186 Megheinai Koce 200326803 Nikiil kuran Brais 287 Salori Kuman madui 200326803 Nikiil kuran Brais 288 Salori Kuman madui 200326803 Nikiil kuran Brais 29 Sarat Kuman Salori 200326803 Nikiil kuran Brais 29 Sarat Anghan 200326803 Nikiil kuran Brais 29 Sarat Anghan 200326803 Nikiil kuran Brais 29 Sarat Anghan 200326803 Sarata Naharaha 2003268036 Sarata Naharaha	OR	MAR Samol	CHOR SHOWS TO THE MANY A 101
10 Gentanii Tani 190326804 Gentanii Tani 11 Phalikihya Pujani 1903268061 Phalikihya Pujani 12 Nisha Fahd 110336066 Phalikihya Pujani 13 Sinii B. Patasik 190326002 Sinis B. Patasik 14 Gulan Ku. Lahao 190336002 Chiumaya Ku. Cahao 15 Chinnaya Ku. Sahu 190336002 Chiumaya Ku. Cahu 16 Guptelular Panignahi 190326002 Chiumaya Ku. Cahu 16 Guptelular Panignahi 190326003 Guptelular Panjanahi 17 Salloni Qash 2003 2003603 Guptelular Panjanahi 18 Meghunai Locas 2003603 Suhaya Ku. Rukhani 19 Sahaya Mu Nayak. 2003603 Suhaya Ku. Rukhani 20 Sahaya Mu Nayak. 2003603 Suhaya Ku. Mayak. 21 Adiiya Mu Nayak. 2003603 Suhaya Ku. Mayak. 22 Sarat Kuman madul 2003603 Nikili kuran Tinis 23 Singhananda Panda 2003603 Nikili kuran Tinis 24 Sandup Mandal 2003606 Depaish Panka 25 Shipananda Panda 2003606 Depaish Panda 26 Oaqusish pohan 2003606 Depaish Panda 27 Injana Nond 50036003 Surita Naharanii 29 Sarata Hahahahanti 200326003 Surita Naharanii 29 Sarata Hahahahanti 200326003 Surita Naharanii		Aprilit makes	
Photosikalyo Pujanei 1903268061 Photosikya Pujani 12 Nisha Fahad 1903268062 Shisha Saha 13 Shull B. Potosik 1903268062 Shull B. Potosik 1903268072 Shull B. Potosik 1903268072 Shull B. Potosik 1903268072 Shull Ru. Sahu 1903268072 Chumaya Ku. Sahu 16 Gaptelupax Panigrahi 1903268072 Chumaya Ku. Sahu 16 Gaptelupax Panigrahi 1903268072 Shullar Xandarahi 17 Saloni Wash (190326807) Jaloni Wash (190326807) Mishanah Kuth 190326807 Shullar Ku. Mayak 2003268072 Shullar Ku. Mayak 2003268072 Shulli Kuran Phois 22 Salah Ruman madu 2003268073 Shikhi kuran Phois 230 Salah Ruman Madu 2003268080 Shikhi Salah Madu 2003268080 Shikhi Salah Madu 2003268080 Salah Ruman Phois 230 Salah Ruman Madu 2003268080 Salah Ruman Madu 2003268080 Salah Ruman Phois 24 Salah Ruman Madu 2003268080 Salah Ruman Madu 2003268080 Salah Ruman Madu 2003268080 Salah Ruman Madu 2003268080 Salah Ruman Phois 24 Salah Ruman Madu 2003268080 Salah Ruman Mad			
12 Nisha (taha) 13 SKN H B. Petasik (1903) 45043 DKN H B. P. taalk 14 Gy Hap KN. Sahre (1903) 45042 Sylfsan KN. Sahre 15 Chinneye KN. Sahre (1903) 46098 Chinnaya Kn. Sahre 16 Gyaptelylar Panignahi (1903) 46098 Chinnaya Kn. Sahre 16 Gyaptelylar Panignahi (1903) 46098 Gyptelylar Panignahi 17 Salioni Wash (1903) 46091 Jallani Wash 18 Meghennal Doces (2003) Jallani Wash 19 Adriya Kn. Dandya (2003) 46000 Allani Panignahi 20 Adriya Kn. Dandya (2003) 46000 Allani Panignahi 21 Catar Kuman madul (2003) 46000 Allani Panignahi 22 Sahriya Moodal (2003) 46000 Allani Panignahi 23 Mikhi ku. Abai; (2003) 46000 Debesish Panignahi 24 Shibananda Panda (2003) 46000 Debesish Panignahi 25 Shibananda Panda (2003) 46000 Debesish Panignahi 26 Oatasish Paninan (2003) 46000 Debesish Panignahi 27 Anjona Nome 28 Nikedita Chakaabareti (2003) 46000 Allani Panignahi 29 Saretta Nahahaanani 20 Saretta Nahahaanani 20 Saretta Nahahaanani 20 Saretta Nahahaanani 20 Saretta Nahahaanani		Doutake Jak	
13 Skuti B. Patealk 190326502 Skuti B. Pataalk Ly Gullan Ku. Sahas 190326802 Gullan Ku. Sahas 190326802 Gullan Ku. Sahas 15 Guptelular Ku. Sahas 190326802 Chiumaya Ku. Sahas 15 Guptelular Parignahi 190326802 Guptelular Parignahi 17 Sahoni Wash (20036803) Jahoni Wash Dandyaa 200326803 Jahoni Wash Dandyaa 200326803 Sakasa ku Dandayaa 200326803 Sakasa ku Danda 200326803 Jahasanda 200326803 Jahasanda 200326803 Jahasanda 200326803 Jahasanda 200326803 Jahasanda 200326803 Sakasa Now U 28 Mibedita Chakaabaati 2003268036 Sakasa Now U 28 Mibedita Chakaabaati 2003268036 Sakasa Now U 28 Sakasa Hahaakaabaati 2003268036 Sakasa Non W U 28 Sakasa			
Le Chennaye Ku. Sahue 1903268028 Chiumaya Ku. Sahue 16 Guplelular Panignahi 1903268028 Chiumaya Ku. Sahue 160 Sagara Saputelular Panignahi 1903268031 Jahun Dari Panignahi 17 Sakori Dash Dash 1903268031 Jahun Dari Panignahi 18 meghunayi Kuca 2003268032 Adding Ku. Caracyara 190 Adiya Ku. Nayak. 2003268032 Adirogo Ku. Caracyara 2003268032 Adirogo Ku. Nayak. 32 Sada Kuman madui 200326803 Niklii Ku. Nayak. 32 Sada Kuman madui 200326803 Niklii Ku. Nayak. 32 Sada Kuman madui 200326803 Niklii Ku. Nayak. 32 Janjup Mondal 200326803 Jihibanahia Panda 200326803 Jihibanahia Panda 200326803 Jihibanahia Panda 200326803 Niklii Ku. Now 20 Sagarah 20 Sagarah Now 20 Sagarah 20		Misha Saha	
16 Chentage Ku. Sahr 190326808 Chimmaya Ku. Sehir 16 Guptelubar Panigrahi 190326803 Geptelwar Panigrahi 17 Saloni Wash () 18 Meghemaul Nocet 200326803 Mahaya Ku. Dandeyaa 18 Meghemaul Nocet 200326803 Mahaya Ku. Dandeyaa 200326803 Mahaya Ku. Dandeyaa 200326803 Mahaya Ku. Dandeyaa 200326803 Mahaya Ku. Nayak. 21 Salan Kuman madul 200326803 Mikbil Kuran Tinus 24 Jandup Mandal 200326803 Likbil Kuran Tinus 25 Shiphnanda Panda 200326803 Jihibananda Panda 25 Shiphnanda Panda 200326803 Jihibananda Panda 26 Oalgasish Padham 200326806 Debaish Padh 27 Anjana Norde 200326806 Debaish Padh 28 Nibedita Chakaabareti 2003268036 Sairita Naharrana 29 Sareta Hahahaana		STENIE B. POTRACK	1903265062 SHUH D. PATROLL
16 Gupleludas Panignahi 1903251043 Gupleludas Panjarahi 17 Salloni Wash (200251031) Jaloni Wash 18 Megheinaul Kucet 20025168012 Mighained Rust 19 Kanaya ku Dandyara 2002568012 Kilhaya ku Nayaki 21 Adiiya Ku Nayaki 300296901 Adiiya ku Nayaki 22 Salai kuman madui 200226901 Janday mondal 23 Nikhil ku Brai; 200226901 Janday mondal 25 Shiphninda Panda 200226901 Janday mondal 25 Shiphninda Panda 200226901 Janday mondal 26 Dalaisis Balhan 200526903 Debaish Panda 27 Anjana Nome 200269000 Ambra Nome 28 Nibedita Chakaabarti 2002260000 Ambra Nome 29 Sarel Ha Mahairang 2002260036 Sarrita Nahariana			
17 Saloni Cash (20026031 Jaloni Dath () 18 Meghenar 20026031 Meghenar Rut 19 Sanaya ku Dandyaa 20026802 Shiraya ku Dandyak 21 Adiiya Ku Nayak. 20026021 Sanat ku Madhi 22 Satar kuman madu 20026002 Nikhil kurar Brais 23 Nikhil ku Brais 20026002 Nikhil kurar Brais 24 Janlup Mondal 20026002 Jandya mondal 25 Shipaninda Panda 20026002 Jihibananda Panda 26 Dalgerish Balhan 20026000 Debaish Panda 27 Anjana Nome 20026002 Ambra Nome 28 Nibedita Chakaabacti 20026002 Ambra Nome 29 Sarel Ha Mahahanda 2003261036 Sarrita Nahartana			1903)68028 Chiumaya Ku Sanu
18 Meghenari Rocal Scarsban Meghanari Ruet 19 Annaya Ne Dandayara 20336802 which we fordered 21 Aditya Ku Mayak. 32 Salat ruman madur 200328701 Sanat ku madur 23 Nikhi ku Abayi 200328701 Sanat ku madur 24 Shipananda Panda 200328701 Jaydan mondal 25 Shipananda Panda 200328701 Jhibananda Panda 26 Dalgasish Panhan 200328700 Debasish Panh 27 Anjana Nana 200328700 Nikhananda Panda 28 Nibedita Chaknabareti 2003267022 Nibealita Chaknabandi 29 Saretta Hahanrang 2003268036 Saretta Maharrana			1903261043 Gupterwax Pangrahi
29 Saretta Mahanana 20326802 Allan Va. Mayak 21 Aditya Ku Mayak. 200326802 Aditya Ku. Mayak 22 Sarat Kuman madu; 200326803 Mikhil kuran Thais 23 Mikhil ku. Thai; 200326803 Mikhil kuran Thais 24 Janlup Mandal 200326803 Mikhil kuran Thais 25 Shiphananda Panda 200326803 Jihlananda Panda 26 Delasish Bahan 200326803 Delasish Panda 26 Anjuna Nome 2004 American Nome 28 Mikhedita Chakaabareti 2003268036 Sarrita Mahananai 29 Saretta Mahahanana 2003268036 Sarrita Mahanana		Salloni Wash	
21 Aditya Mu Nayak. 3003268001 Aditya Ku. Nayak. 32 Cadal Kuman madul 2003268003 Rikhil Kuran Brais 24 Taylup Mondal 2003268003 Rikhil Kuran Brais 25 Shipananda Panda 2003268003 Jandangala Panda 26 Oatasish Dadham 2003268006 Debosish Panda 27 Amana None Come 2003268002 Alibertita Chakaabaati 28 Alibertita Chakaabaati 2003268036 Saurita Naharabaati 29 Sarceta Hahahahaana		meghanar Local	
22 Satar kuman madur 2003268023 Mikhil kuman Thrus 24 Jaylup Mandal 25 Shiphnanda Panda 25 Shiphnanda Panda 26 Octobrish Poethon 27 Anjana None 28 Nibedita Chakaabaatti 2003268022 Mibedita Chakaabanti 29 Saratta Mahamana 2003268036 Sarata Mahamana	19	Anhaya no DandeyAg	203268012 valuncya Ku. Lancyera
23 Nikhi keu Brai 2002/6802 Mikhi kuran Brais 24 Jandup Mandal 2002/6802 Janderp Mandal 25 Shipananda Panda 26 Octobrish Poethan 2002/6806 Deposish Panda 27 Anjana Nama 2002/6806 Deposish Panda 28 Nibedita Chakrabareti 2003/68036 Samita Naharabanti 29 Saresta Mahananan 2003/68036 Samita Naharabanti 29 Saresta Mahananan 2003/68036 Samita Naharabanti	21	Aditya Ku Nayak.	200326 POUT AOUTYA KU. Nayar.
24 Janley Mardal 25 Shiphnanda Panda 26 Delasish Dadhan 26 Delasish Dadhan 2003268032 Jhibananda Panda 26 Delasish Dadhan 2003268034 Delasish Panda 28 Nibedita Chakrabareti 2003268022 Nibealita Chakrabardi 29 Sarekta Mahamand 2003268036 Sarreta Mahamana		Sarat kuman madul	
25 Shiphnanda Panda 26 Dalasish Dadhan 20 Anjuna humu Doo asgyuut hypera homu 28 Nibedita Chakrabarti 2m3262022 Alibedita Chakrabarti 29 Sareeta Mahamana 2003268036 Sarreta Mahamana	23	witchil ken. Bhai	2003268023 Klikbil Keran Brows
26 Octobrish Padhan 27 Anjona Nama 28 Missedita Chakaabaati 2m3262022 Missedita Chakaabaati 29 Sarelta Mahanaana 2003268036 Sarelta Mahanana	34	Janlup Mordal	2003269013 Jaydeep mondal
28 Nibedita chakrabareti 2m3262022 Mibedita chakrabarti 29 Sarcita Mahancana 2003268036 Sarrita Maharana	25	shipananda Panda	
28 Nibedita Chakaabaati 2003262022 Nibedita Chakaabaati 29 Sareeta Mahanaang 2003268036 Sareta Maharana	26		2003268060 Debosish Padh
28 Mibedita Chakaabarti 2M3262022 Mibedita Chakabarti 29 Sarelta Maharana 2003268036 Sarelta Maharana			DOGSTOND WINDER GOOD
29 Sarelta Mahahana 2003268036 Sarrita Maharana	28	Nibedita chakkabareti	2013262022 Nibeolita Chakrabanti
	29	Sarceta Mahahana	2003268036 Sarring Mahartana
		A STATE OF THE SECOND STAT	
		4)	
		4	A .
			*
			•
			·
	-		
		4	•
		• .	
			•
			00

PRINCIPAL
PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
ROHDAPALLI, JEYPORE (K) 764002

PRÍNCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)
RONDAPALLI, JEYPORE, KORAPUT DIST, ODISHA-764002

PROFESSIONAL ETHICS

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - Pep/2211 162N

Date: - 19.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "National Pharmacy Week" on 20.11.2022 to 26.11.2022 at our college campus at 11.00

A.M.

Principal PRINCIPAL

JEYPORE COLLEGE OF PHARMACY

RSHDAPALLI, EYPORE (K) 754002. Copy to Buses / Notice boards.

OFFICE OF THE PRINCIPAL JEYPORE COLLEGE OF PHARMACY

NOTICE

Ref. No: - Dep/2211/162N

Date: - 19.11.2022

The staff and students of Jeypore College of Pharmacy are here by informed that our college will be observe the "National Pharmacy Week" on 20.11.2022 to 26.11.2022 at our college campus at 11.00

A.M.

JETPARE COLLEGE OF PHARMACY

REMARKILL IS PROFE IN 154097
Copy to Buses / Notice boards.

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT)

RONDAPALLI, JEYPORE, KORAPUT DIST, ODISHA-764002

PROFESSIONAL ETHICS

11/24/22, 4:21 PM

DocScanner 24-Nov-2022 2-20 pm.jpg



JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust)
Approved by Government of Odisha & All India Council for Technical Education, New Delhi Affiliated to Biju Pattnaik University of Technology & Pharmacy Council of India, New Delhi

Ref. No. : Pep / 2211 / 8020

Date: 24 | 11 | 2022

The Medical Officer CHC, Rabanaguda Dist:Koraput

Sub: Deputation of Dr.Bibhuti Kumar Rath, BHMS for Free Medicine Distribution camp at Keraput.

Respected Sir / Madam,

With reference to the subject cited above, I am to bring to your kind knowledge that the "National Pharmacy Week" is being celebrated during the third week of November each year by each pharmacy institution / organization. Accordingly, we have proposed to celebrate the National Pharmacy Week from 21.11.2022 to 27.11.2022, during the celebrated week, we proposed to make free drug distribution to 100 patients on 24.11.2022 and the students and staffs will be disbursed the drugs from provided place at Keraput. So it is our sincere request to you kindly depute Dr.Bibhuti Kumar Rath, BHMS for the above said programme for prescribed the drug to the patient.

Thanking you.

Yours faithfully

PRINCIPAL JEYPORE COLLEGE OF PHARMACY ROHDAPALLI, JEYFORE (K) 784002

> SEYPORE COLLEGE OF PHARMAC RONDAPALLI, JEYPORE (K) 764002



JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust) Approved by Government of Odisha & All India Council for Technical Education, New Delhi Affiliated to Biju Pattnaik University of Technology & Pharmacy Council of India, New Delhi

Ref. No. : (JCP 2211/7980

The Sarapanch Rondapalli Dist:Koraput

Sub: Celebration of 'National Pharmacy Week"2022.

Respected Sir / Madam,

With reference to the subject cited above, I am to bring to your kind knowledge that the "National Pharmacy Week" is being celebrated during the third week of November each year by each pharmacy institution / organization. Accordingly, we have proposed to celebrate the National Pharmacy Week from 21.11.2022 to 27.11.2022, during the celebrated week, we proposed to make free drug distribution to 100 patients on 24.11.2022 and the students and statis will be disbursed the drugs from provided place at your village with our own arrangements.

I would therefore request you to kindly grant necessary permission to organize the Free drugs distribution camp at your village.

Thanking you. Yours faithfully

TELL LATE SOUTHER IN WHAT WHOLE TIMESHAWATE TO T

JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002



(Approved DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUT) RONDAPALLI, JEYPORE, KORAPUT DIST. ODISHA-764002





JEYPORE COLLEGE OF PHARMACY, RONDAPALI

FEED BACK FORM

EVENT NAME: Notional pharmacy

DATE: 26/11/2022

STUDENT NAME: Akhaya vu. Dandasena

REGD NO: 2003268052

Please rate the following on a scale of poor to excellent:

1	e experience f		3	4	15-
How enterta	ining was the	event?			
1	2	3	3	14	5
Did this ever	it meet your e	expectation	?		
1	2	3		4	, 5

PRINCIPAL SEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002

HUMAN VALUE 1.3.1 QLM

BP101T, HUMAN ANATOMY AND PHYSIOLOGY-I (Theory)

45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to

- 1. Explain the gross morphology, structure and functions of various organs of the human body.
- Describe the various homeostatic mechanisms and their imbalances.
- Identify the various tissues and organs of different systems of human body.
- 4. Perform the various experiments related to special senses and nervous system.
- 5. Appreciate coordinated working pattern of different organs of each system

Course Content:

Unit I

10 hours

· Introduction to human body

Definition and scope of anatomy and physiology, levels of structural organization and body systems, basic life processes, homeostasis, basic anatomical terminology.

Cellular level of organization

Structure and functions of cell, transport across cell membrane, cell division, cell junctions. General principles of cell communication, intracellular signaling pathway activation by extracellular signal molecule, Forms of intracellular signaling: a) Contact-dependent b) Paracrine c) Synaptic d) Endocrine

Tissue level of organization

Classification of tissues, structure, location and functions of epithelial, muscular and nervous and connective tissues.

Unit II

10 hours

Integumentary system

Structure and functions of skin

Skeletal system

Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular skeletal system Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction

PRINCIPAL FEFFORE COLLEGE OF PHARMACY RONDAPALLI, JEYFORE (K) 164002

1.3.1 QLM

HUMAN VALUE

Joints
 Structural and functional classification, types of joints movements and its articulation

Unit III

10 hours

- Body fluids and blood
- Body fluids, composition and functions of blood, hemopoeisis, formation of hemoglobin, anemia, mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance and disorders of blood, Reticulo endothelial system.
- Lymphatic system
 Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system

Unit IV

08 hours

Peripheral nervous system:

Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system. Origin and functions of spinal and cranial nerves.

Special senses
 Structure and functions of eye, ear, nose and tongue and their disorders.

Unit V

07 hours

· Cardiovascular system

Heart – anatomy of heart, blood circulation, blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system, cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.

30

PRINCIPAL PEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002

1.3.1 QLM

HUMAN VALUE

BP107P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

- 1. Study of compound microscope.
- 2. Microscopic study of epithelial and connective tissue
- 3. Microscopic study of muscular and nervous tissue
- 4. Identification of axial bones
- 5. Identification of appendicular bones
- 6. Introduction to hemocytometry.
- 7. Enumeration of white blood cell (WBC) count
- 8. Enumeration of total red blood corpuscles (RBC) count
- 9. Determination of bleeding time
- 10. Determination of clotting time
- 11. Estimation of hemoglobin content
- 12. Determination of blood group.
- 13. Determination of erythrocyte sedimentation rate (ESR).
- Determination of heart rate and pulse rate.
- Recording of blood pressure.

Recommended Books (Latest Editions)

- Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
- Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
- Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co,Riverview,MIUSA
- Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
- 5. Principles of Anatomy and Physiology by Tortora Grabowski. Palmetto, GA, U.S.A.

31

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
DONDAPALLI, JEYPORE (N) 764002

- Textbook of Human Histology by Inderbir Singh, Jaypee brother's medical publishers, New Delhi.
- Textbook of Practical Physiology by C.L. Ghai, Jaypee brother's medical publishers, New Delhi.
- Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee brother's medical publishers, New Delhi.

Reference Books (Latest Editions)

- Physiological basis of Medical Practice-Best and Tailor, Williams & Wilkins Co, Riverview, MI USA
- Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
- 3. Human Physiology (vol 1 and 2) by Dr. C.C. Chatterrje ,Academic Publishers Kolkata

32

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002

BP 201T. HUMAN ANATOMY AND PHYSIOLOGY-II (Theory)

45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to:

 Explain the gross morphology, structure and functions of various organs of the human body.

2. Describe the various homeostatic mechanisms and their imbalances.

3. Identify the various tissues and organs of different systems of human body.

 Perform the hematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc and also record blood pressure, heart rate, pulse and respiratory volume.

. Appreciate coordinated working pattern of different organs of each system

Appreciate coordinated working pattern of different organs of each system.
 Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body.

Course Content:

Unit I

10 hours

· Nervous system

Organization of nervous system, neuron, neuroglia, classification and properties of nerve fibre, electrophysiology, action potential, nerve impulse, receptors, synapse, neurotransmitters.

Central nervous system: Meninges, ventricles of brain and cerebrospinal fluid.structure and functions of brain (cerebrum, brain stem, cerebellum), spinal cord (gross structure, functions of afferent and efferent nerve tracts, reflex activity)

Unit II

06 hours

Digestive system

Anatomy of GI Tract with special reference to anatomy and functions of stomach, (Acid production in the stomach, regulation of acid production through parasympathetic nervous system, pepsin role in protein digestion) small intestine

54

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (N) 764002

and large intestine, anatomy and functions of salivary glands, pancreas and liver, movements of GIT, digestion and absorption of nutrients and disorders of GIT.

Energetics

Formation and role of ATP, Creatinine Phosphate and BMR.

Unit III

Respiratory system

10 hours

Anatomy of respiratory system with special reference to anatomy of lungs, mechanism of respiration, regulation of respiration

Lung Volumes and capacities transport of respiratory gases, artificial respiration, and resuscitation methods.

Urinary system

Anatomy of urinary tract with special reference to anatomy of kidney and nephrons, functions of kidney and urinary tract, physiology of urine formation, micturition reflex and role of kidneys in acid base balance, role of RAS in kidney and disorders of kidney.

Unit IV

10 hours

· Endocrine system

Classification of hormones, mechanism of hormone action, structure and functions of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas, pineal gland, thymus and their disorders.

Unit V

09 hours

Reproductive system

Anatomy of male and female reproductive system, Functions of male and female reproductive system, sex hormones, physiology of menstruation, fertilization, spermatogenesis, oogenesis, pregnancy and parturition

Introduction to genetics

Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance

55

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (N) 764002

BP 207 P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

- 1. To study the integumentary and special senses using specimen, models, etc.,
- 2. To study the nervous system using specimen, models, etc.,
- 3. To study the endocrine system using specimen, models, etc
- 4. To demonstrate the general neurological examination
- 5. To demonstrate the function of olfactory nerve
- To examine the different types of taste.
- 7. To demonstrate the visual acuity
- To demonstrate the reflex activity
- Recording of body temperature
- 10. To demonstrate positive and negative feedback mechanism.
 - Determination of tidal volume and vital capacity.
 - Study of digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.
 - 13. Recording of basal mass index
 - 14. Study of family planning devices and pregnancy diagnosis test.
 - 15. Demonstration of total blood count by cell analyser
 - Permanent slides of vital organs and gonads.

Recommended Books (Latest Editions)

- Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
- Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
- Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co,Riverview,MI USA

56

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALU, JEYPORE (K) 764902

- Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
- 5. Principles of Anatomy and Physiology by Tortora Grabowski. Palmetto, GA, U.S.A.
- Textbook of Human Histology by Inderbir Singh, Jaypee brothers medical publishers, New Delhi.
- Textbook of Practical Physiology by C.L. Ghai, Jaypee brothers medical publishers, New Delhi.
- Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee brother's medical publishers, New Delhi.

Reference Books:

- Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview, MI USA
- Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
- Human Physiology (vol 1 and 2) by Dr. C.C. Chatterrje ,Academic Publishers Kolkata

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (10 764002

BP203 T. BIOCHEMISTRY (Theory)

45 Hours

Scope: Biochemistry deals with complete understanding of the molecular levels of the chemical process associated with living cells. The scope of the subject is providing biochemical facts and the principles to understand metabolism of nutrient molecules in physiological and pathological conditions. It is also emphasizing on genetic organization of mammalian genome and hetero & autocatalytic functions of DNA.

Objectives: Upon completion of course student shell able to

 Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.

Understand the metabolism of nutrient molecules in physiological and pathological conditions.

 Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.

Course Content:

UNIT I

08 Hours

· Biomolecules

Introduction, classification, chemical nature and biological role of carbohydrate, lipids, nucleic acids, amino acids and proteins.

Bioenergetics

Concept of free energy, endergonic and exergonic reaction, Relationship between free energy, enthalpy and entropy; Redox potential.

Energy rich compounds; classification; biological significances of ATP and cyclic AMP

UNIT II

10 Hours

Carbohydrate metabolism

Glycolysis - Pathway, energetics and significance

Citric acid cycle- Pathway, energetics and significance

HMP shunt and its significance; Glucose-6-Phosphate dehydrogenase (G6PD) deficiency

Glycogen metabolism Pathways and glycogen storage diseases (GSD)

Gluconeogenesis- Pathway and its significance

Hormonal regulation of blood glucose level and Diabetes mellitus

Biological oxidation

Electron transport chain (ETC) and its mechanism.

PRINCIPAL

RYPORE COLLEGE OF PHARMACY

RONDAPALLI, JEYPORE (X) 764002

Oxidative phosphorylation & its mechanism and substrate level phosphorylation

Inhibitors ETC and oxidative phosphorylation/Uncouplers

UNIT III 10 Hours

Lipid metabolism
 β-Oxidation of saturated fatty acid (Palmitic acid)

PRINCIPAL
JETPORE COLLEGE OF PHARMACT
RONDAPALLI, JETPORE (K) 764002

Formation and utilization of ketone bodies; ketoacidosis

De novo synthesis of fatty acids (Palmitic acid)

Biological significance of cholesterol and conversion of cholesterol into bile acids, steroid hormone and vitamin D

Disorders of lipid metabolism: Hypercholesterolemia, atherosclerosis, fatty liver and obesity.

· Amino acid metabolism

General reactions of amino acid metabolism: Transamination, deamination & decarboxylation, urea cycle and its disorders

Catabolism of phenylalanine and tyrosine and their metabolic disorders (Phenyketonuria, Albinism, alkeptonuria, tyrosinemia)

Synthesis and significance of biological substances; 5-HT, melatonin, dopamine, noradrenaline, adrenaline

Catabolism of heme; hyperbilirubinemia and jaundice

UNIT IV

10 Hours

· Nucleic acid metabolism and genetic information transfer

Biosynthesis of purine and pyrimidine nucleotides

Catabolism of purine nucleotides and Hyperuricemia and Gout disease

Organization of mammalian genome

Structure of DNA and RNA and their functions

DNA replication (semi conservative model)

Transcription or RNA synthesis

Genetic code, Translation or Protein synthesis and inhibitors

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

1.3.1 QLM

HUMAN VALUE

UNIT V

07 Hours

Enzymes

Introduction, properties, nomenclature and IUB classification of enzymes Enzyme kinetics (Michaelis plot, Line Weaver Burke plot) Enzyme inhibitors with examples

Regulation of enzymes: enzyme induction and repression, allosteric enzymes regulation

Therapeutic and diagnostic applications of enzymes and isoenzymes

Coenzymes -Structure and biochemical functions

BP 209 P. BIOCHEMISTRY (Practical)

4 Hours / Week

- Qualitative analysis of carbohydrates (Glucose, Fructose, Lactose, Maltose, Sucrose and starch)
- 2. Identification tests for Proteins (albumin and Casein)
- Quantitative analysis of reducing sugars (DNSA method) and Proteins (Biuret method)
- Qualitative analysis of urine for abnormal constituents
- Determination of blood creatinine
- Determination of blood sugar
- 7. Determination of serum total cholesterol
- Preparation of buffer solution and measurement of pH
- 9. Study of enzymatic hydrolysis of starch
- 10. Determination of Salivary amylase activity
- Study the effect of Temperature on Salivary amylase activity.
- 12. Study the effect of substrate concentration on salivary amylase activity.

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
LEYPORE (K) 764002

Recommended Books (Latest Editions)

Principles of Biochemistry by Lehninger.

Harper's Biochemistry by Robert K. Murry, Daryl K. Granner and Victor W. Rodwell.

Biochemistry by Stryer.

4. Biochemistry by D. Satyanarayan and U.Chakrapani

Textbook of Biochemistry by Rama Rao.

Textbook of Biochemistry by Deb.

7. Outlines of Biochemistry by Conn and Stumpf

8. Practical Biochemistry by R.C. Gupta and S. Bhargavan.

- Introduction of Practical Biochemistry by David T. Plummer. (3rd Edition)
- 10. Practical Biochemistry for Medical students by Rajagopal and Ramakrishna.

Practical Biochemistry by Harold Varley.

BP 204T.PATHOPHYSIOLOGY (THEORY)

45Hours

Scope: Pathophysiology is the study of causes of diseases and reactions of the body to such disease producing causes. This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge required to practice medicine safely, confidently, rationally and effectively.

Objectives: Upon completion of the subject student shall be able to -

- Describe the etiology and pathogenesis of the selected disease states;
- Name the signs and symptoms of the diseases; and
- Mention the complications of the diseases.

Course content:

Unit I

10Hours

Basic principles of Cell injury and Adaptation: Introduction, definitions, Homeostasis, Components and Types of Feedback systems, Causes of cellular injury, Pathogenesis (Cell membrane damage, Mitochondrial damage, Ribosome damage, Nuclear damage), Morphology of cell injury - Adaptive changes (Atrophy, Hypertrophy, hyperplasia, Metaplasia, Dysplasia), Cell swelling, Intra cellular Death leakage and Enzyme Calcification, accumulation, &Alkalosis,Electrolyte imbalance

PRINCIPAL

64

Basic mechanism involved in the process of inflammation and repair:
Introduction, Clinical signs of inflammation, Different types of Inflammation, Mechanism of Inflammation – Alteration in vascular permeability and blood flow, migration of WBC's, Mediators of inflammation, Basic principles of wound healing in the skin, Pathophysiology of Atherosclerosis

Unit II 10Hours

- Cardiovascular System:
 Hypertension, congestive heart failure, ischemic heart disease (angina,myocardial infarction, atherosclerosis and arteriosclerosis)
- Respiratory system: Asthma, Chronic obstructive airways diseases.
- Renal system: Acute and chronic renal failure

Unit II

10Hours

- Haematological Disenses: Iron deficiency, megaloblastic anemia (Vit B12 and folic acid), sickle cell anemia, thalasemia, hereditary acquired anemia, hemophilia
- Endocrine system: Diabetes, thyroid diseases, disorders of sex hormones
- Nervous system: Epilepsy, Parkinson's disease, stroke, psychiatric disorders: depression, schizophrenia and Alzheimer's disease.
- Gastrointestinal system: Peptic Ulcer

Unit IV

8 Hours

- Inflammatory bowel diseases, jaundice, hepatitis (A,B,C,D,E,F) alcoholic liver disease.
- Disease of bones and joints: Rheumatoid arthritis, osteoporosis and gout
- Principles of cancer: classification, etiology and pathogenesis of cancer
- Diseases of bones and joints: Rheumatoid Arthritis, Osteoporosis, Gout
- Principles of Cancer: Classification, etiology and pathogenesis of Cancer

Unit V

7 Hours

Infectious diseases: Meningitis, Typhoid, Leprosy, Tuberculosis

Urinary tract infections

Sexually transmitted diseases: AIDS, Syphilis, Gonorrhea

Recommended Books (Latest Editions)

65

PRINCIPAL

PRINCIPAL

PRINCIPAL

RONDAPALLI, JEYPORE (N) 75,4002

HUMAN VALUE 1.3.1 QLM

BP 404 T. PHARMACOLOGY-I (Theory)

45 Hrs

Scope: The main purpose of the subject is to understand what drugs do to the living organisms and how their effects can be applied to therapeutics. The subject covers the information about the drugs like, mechanism of action, physiological and biochemical effects (pharmacodynamics) as well as absorption, distribution, metabolism and excretion (pharmacokinetics) along with the adverse effects, clinical uses, interactions, doses, contraindications and routes of administration of different classes of drugs.

Objectives: Upon completion of this course the student should be able to

- Understand the pharmacological actions of different categories of drugs
- Explain the mechanism of drug action at organ system/sub cellular/
- 3. Apply the basic pharmacological knowledge in the prevention and treatment of various diseases.
- Observe the effect of drugs on animals by simulated experiments
- Appreciate correlation of pharmacology with other bio medical sciences

Course Content:

UNIT-I

1. General Pharmacology

08 hours

- a. Introduction to Pharmacology- Definition, historical landmarks and scope of pharmacology, nature and source of drugs, essential drugs concept and routes of drug administration, Agonists, antagonists(competitive and non competitive), spare receptors, addiction, tolerance, dependence, tachyphylaxis, idiosyncrasy, allergy.
- b. Pharmacokinetics- Membrane transport, absorption, distribution, metabolism and excretion of drugs .Enzyme induction, enzyme inhibition, kinetics of elimination

UNIT-II

12 Hours

General Pharmacology

- a. Pharmacodynamics- Principles and mechanisms of drug action. Receptor theories and classification of receptors, regulation of receptors. drug receptors interactions signal transduction mechanisms, G-protein-coupled receptors, ion channel receptor, transmembrane enzyme linked receptors, transmembrane JAK-STAT binding receptor and receptors that regulate transcription factors, dose response relationship, therapeutic index, combined effects of drugs and factors modifying drug action.
- b. Adverse drug reactions.
- Drug interactions (pharmacokinetic and pharmacodynamic)
- d. Drug discovery and clinical evaluation of new drugs -Drug discovery phase, preclinical evaluation phase, clinical trial phase, phases of clinical trials and pharmacovigilance.

98

PRINCIPAL JEYPORE COLLEGE OF PHARMACY ROHDAPALLI, IEYPORE (10 764002

1.3.1 QLM

HUMAN VALUE

UNIT-III 10 Hour

- 2. Pharmacology of drugs acting on peripheral nervous system
 - a. Organization and function of ANS.
 - b. Neurohumoral transmission, co-transmission and classification of neurotransmitters.
 - Parasympathomimetics, Parasympatholytics, Sympathomimetics, sympatholytics.
 - d. Neuromuscular blocking agents and skeletal muscle relaxants (peripheral).
 - e. Local anesthetic agents.
 - f. Drugs used in myasthenia gravis and glaucoma

UNIT-IV 08 Hours

- 3. Pharmacology of drugs acting on central nervous system
- a. Neurohumoral transmission in the C.N.S. special emphasis on importance of various neurotransmitters like with GABA, Glutamate, Glycine, serotonin, dopamine.
- b. General anesthetics and pre-anesthetics.
- c. Sedatives, hypnotics and centrally acting muscle relaxants.
- d. Anti-epileptics
- e. Alcohols and disulfiram

UNIT-V 07 Hours

- 3. Pharmacology of drugs acting on central nervous system
- a. Psychopharmacological agents: Antipsychotics, antidepressants, anti-anxiety agents, anti-manies and hallucinogens.
- b. Drugs used in Parkinsons disease and Alzheimer's disease.
- c. CNS stimulants and nootropics.
- d. Opioid analgesics and antagonists
- e. Drug addiction, drug abuse, tolerance and dependence.

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (NO 784082

BP 408 P.PHARMACOLOGY-I (Practical)

4Hrs/Week

- Introduction to experimental pharmacology.
- Commonly used instruments in experimental pharmacology.
- 3. Study of common laboratory animals.
- 4. Maintenance of laboratory animals as per CPCSEA guidelines.
- Common laboratory techniques. Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.
- Study of different routes of drugs administration in mice/rats.
- Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.
- Effect of drugs on ciliary motility of frog oesophagus
- 9. Effect of drugs on rabbit eye.
- Effects of skeletal muscle relaxants using rota-rod apparatus.
- 11. Effect of drugs on locomotor activity using actophotometer.
- Anticonvulsant effect of drugs by MES and PTZ method.
- Study of stereotype and anti-catatonic activity of drugs on rats/mice.
- Study of anxiolytic activity of drugs using rats/mice.
- 15. Study of local anesthetics by different methods

Note: All laboratory techniques and animal experiments are demonstrated by simulated experiments by softwares and videos

Recommended Books (Latest Editions)

- Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, Churchil Livingstone Elsevier
- Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata Mc Graw-Hill
- Goodman and Gilman's, The Pharmacological Basis of Therapeutics
- Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs, The Point Lippincott Williams & Wilkins
- Mycek M.J, Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews-Pharmacology

100

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (N) 764002

- K.D.Tripathi, Essentials of Medical Pharmacology, JAYPEE Brothers Medical Publishers (P) Ltd., New Delhi.
- Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher
- Modern Pharmacology with clinical Applications, by Charles R.Craig& Robert,
- Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata.
- Kulkarai SK. Handbook of experimental pharmacology. VallabhPrakashan,

PRINCIPAL
IEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

45 Hours

Scope: This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on different systems of body and in addition, emphasis on the basic concepts of bioassay.

Objectives: Upon completion of this course the student should be able to

- Understand the mechanism of drug action and its relevance in the treatment of different diseases
- Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments
- 3. Demonstrate the various receptor actions using isolated tissue preparation
- 4. Appreciate correlation of pharmacology with related medical sciences

Course Content:

UNIT-I

10hours

- 1. Pharmacology of drugs acting on cardio vascular system
 - a. Introduction to hemodynamic and electrophysiology of heart.
 - b. Drugs used in congestive heart failure
 - c. Anti-hypertensive drugs.
 - d. Anti-anginal drugs.
 - e. Anti-arrhythmic drugs.
 - f. Anti-hyperlipidemic drugs.

UNIT-II

10hours

- 1. Pharmacology of drugs acting on cardio vascular system
 - a. Drug used in the therapy of shock.
 - b. Hematinics, coagulants and anticoagulants.
 - c. Fibrinolytics and anti-platelet drugs
 - d. Plasma volume expanders
- 2. Pharmacology of drugs acting on urinary system
 - a. Diuretics
 - b. Anti-diuretics.

UNIT-III

10hours

- 3. Autocoids and related drugs
 - a. Introduction to autacoids and classification
 - Histamine, 5-HT and their antagonists.
 - c. Prostaglandins, Thromboxanes and Leukotrienes.
 - d. Angiotensin, Bradykinin and Substance P.
 - e. Non-steroidal anti-inflammatory agents
 - f. Anti-gout drugs
 - g. Antirheumatic drugs

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (N) 764002

1.3.1 QLM

HUMAN VALUE

UNIT-IV 08hours

5. Pharmacology of drugs acting on endocrine system

- a. Basic concepts in endocrine pharmacology.
- Anterior Pituitary hormones- analogues and their inhibitors.

c. Thyroid hormones- analogues and their inhibitors.

- d. Hormones regulating plasma calcium level- Parathormone, Calcitonin and Vitamin-D.
- d. Insulin, Oral Hypoglycemic agents and glucagon.
- e. ACTH and corticosteroids.

UNIT-V

07hours

- 5. Pharmacology of drugs acting on endocrine system
 - Androgens and Anabolic steroids.
 - Estrogens, progesterone and oral contraceptives.
 - c. Drugs acting on the uterus.
- 6. Bioassay
- a. Principles and applications of bioassay.
- b. Types of bioassay
- Bioassay of insulin, oxytocin, vasopressin, ACTH,d-tubocurarine,digitalis, histamine and 5-HT

PRINCIPAL

IEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 784002

1.3.1 QLM

HUMAN VALUE

BP 507 P. PHARMACOLOGY-II (Practical)

4Hrs/Week

- Introduction to in-vitro pharmacology and physiological salt solutions.
- 2. Effect of drugs on isolated frog heart.
- 3. Effect of drugs on blood pressure and heart rate of dog.
- 4. Study of diuretic activity of drugs using rats/mice.
- 5. DRC of acetylcholine using frog rectus abdominis muscle.
- Effect of physostigmine and atropine on DRC of acetylcholine using frog rectus abdominis muscle and rat ileum respectively.
- 7. Bioassay of histamine using guinea pig ileum by matching method.
- 8. Bioassay of oxytocin using rat uterine horn by interpolation method.
- 9. Bioassay of serotonin using rat fundus strip by three point bioassay.
- 10. Bioassay of acetylcholine using rat ileum/colon by four point bioassay.
- Determination of PA₂ value of prazosin using rat anococcygeus muscle (by Schilds plot method).
- Determination of PD₂ value using guinea pig ileum.
- 13. Effect of spasmogens and spasmolytics using rabbit jejunum.
- Anti-inflammatory activity of drugs using carrageenan induced paw-edema model.
- 15. Analgesic activity of drug using central and peripheral methods

Note: All laboratory techniques and animal experiments are demonstrated by simulated experiments by softwares and videos

Recommended Books (Latest Editions)

- Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, Churchil Livingstone Elsevier
- Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata Mc Graw-Hill.
- Goodman and Gilman's, The Pharmacological Basis of Therapeutics
- Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs, The Point Lippincott Williams & Wilkins.
- Mycek M.J, Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews-Pharmacology.
- K.D.Tripathi. Essentials of Medical Pharmacology, , JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi.
- 7. Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher
- 8. Modern Pharmacology with clinical Applications, by Charles R.Craig& Robert.
- Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata.
- 10. Kulkarni SK. Handbook of experimental pharmacology. Vallabh Prakashan.

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (N) 164002

117

1.3.1 QLMT. PHARMHUMAN, VALUE

45 Hours

Scope: This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immuno-pharmacology and in addition, emphasis on the principles of toxicology and chronopharmacology.

Objectives: Upon completion of this course the student should be able to:

- understand the mechanism of drug action and its relevance in the treatment of different infectious diseases
- 2. comprehend the principles of toxicology and treatment of various poisoningsand
- 3. appreciate correlation of pharmacology with related medical sciences.

Course Content:

UNIT-I

10hours

- 1. Pharmacology of drugs acting on Respiratory system
 - a. Anti -asthmatic drugs
 - b. Drugs used in the management of COPD
 - c. Expectorants and antitussives
 - d. Nasal decongestants
 - e. Respiratory stimulants

2. Pharmacology of drugs acting on the Gastrointestinal Tract

- a. Antiulcer agents.
- b. Drugs for constipation and diarrhoea.
- c. Appetite stimulants and suppressants.
- d. Digestants and carminatives.
- e. Emetics and anti-emetics.

UNIT-II

10hours

- 3. Chemotherapy
 - a. General principles of chemotherapy.
 - Sulfonamides and cotrimoxazole.
 - c. Antibiotics- Penicillins, cephalosporins, chloramphenicol, macrolides, quinolones and fluoroquinolins, tetracycline and aminoglycosides

UNIT-III

10hours

- 3. Chemotherapy
 - a. Antitubercular agents
 - b. Antileprotic agents

131

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 164002

1.3.1 QLM

HUMAN VALUE

- c. Antifungal agents
- d. Antiviral drugs
- e.Anthelmintics
- f. Antimalarial drugs
- g. Antiamoebic agents

UNIT-IV

08hours

- 3. Chemotherapy
 - 1. Urinary tract infections and sexually transmitted diseases.
 - m. Chemotherapy of malignancy.

4. Immunopharmacology

- a. Immunostimulants
- Immunosuppressant

Protein drugs, monoclonal antibodies, target drugs to antigen, biosimilars

UNIT-V

07hours

5. Principles of toxicology

- Definition and basic knowledge of acute, subacute and chronic toxicity.
- Definition and basic knowledge of genotoxicity, carcinogenicity, teratogenicity and mutagenicity
- General principles of treatment of poisoning
- Clinical symptoms and management of barbiturates, morphine, organophosphorus compound and lead, mercury and arsenic poisoning.

6. Chronopharmacology

- Definition of rhythm and cycles.
- Biological clock and their significance leading to chronotherapy.

PRINCIPAL JEYPORE COLLEGE OF PRARMACY RONDAPALLI, JETPORE (IO 764002

HUMAN VALUE 1.3.1 QLM

BP 608 P. PHARMACOLOGY-III (Practical)

4Hrs/Week

- 1. Dose calculation in pharmacological experiments
- 2. Antiallergic activity by mast cell stabilization assay
- 3. Study of anti-ulcer activity of a drug using pylorus ligand (SHAY) rat model and NSAIDS induced ulcer model.
- 4. Study of effect of drugs on gastrointestinal motility
- 5. Effect of agonist and antagonists on guinea pig ileum
- 6. Estimation of serum biochemical parameters by using semi- autoanalyser
- 7. Effect of saline purgative on frog intestine
- 8. Insulin hypoglycemic effect in rabbit
- 9. Test for pyrogens (rabbit method)
- 10. Determination of acute oral toxicity (LD50) of a drug from a given data
- 11. Determination of acute skin irritation / corrosion of a test substance
- 12. Determination of acute eye irritation / corrosion of a test substance
- 13. Calculation of pharmacokinetic parameters from a given data
- 14. Biostatistics methods in experimental pharmacology(student's t test, ANOVA)
- 15. Biostatistics methods in experimental pharmacology (Chi square test, Wilcoxon Signed Rank test)
- *Experiments are demonstrated by simulated experiments/videos

Recommended Books (Latest Editions)

- Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, 1. Churchil Livingstone Elsevier
- Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata Mc 2. Graw-Hill 3.
- Goodman and Gilman's, The Pharmacological Basis of Therapeutics
- Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs. The Point Lippincott Williams & Wilkins
- Mycek M.J., Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews-Pharmacology
- K.D. Tripathi, Essentials of Medical Pharmacology, , JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi. 7.
- Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher Modern Pharmacology with clinical Applications, by Charles R.Craig& Robert, 8.
- Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata, 9.
- Kulkarni SK. Handbook of experimental pharmacology. VallabhPrakashan, 10.
- N.Udupa and P.D. Gupta, Concepts in Chronopharmacology.

PRINCIPAL

SEYPORE COLLEGE OF PHARMACY ROHDAPALLI, JEYPORE (K) 764002

1.3.1 QLM GENDER

BP 201T. HUMAN ANATOMY AND PHYSIOLOGY-II (Theory)

45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to:

 Explain the gross morphology, structure and functions of various organs of the human body.

2. Describe the various homeostatic mechanisms and their imbalances.

3. Identify the various tissues and organs of different systems of human body.

 Perform the hematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc and also record blood pressure, heart rate, pulse and respiratory volume.

. Appreciate coordinated working pattern of different organs of each system

Appreciate coordinated working pattern of different organs of each system.
 Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body.

Course Content:

Unit I

10 hours

Nervous system

Organization of nervous system, neuron, neuroglia, classification and properties of nerve fibre, electrophysiology, action potential, nerve impulse, receptors, synapse, neurotransmitters.

Central nervous system: Meninges, ventricles of brain and cerebrospinal fluid.structure and functions of brain (cerebrum, brain stem, cerebellum), spinal cord (gross structure, functions of afferent and efferent nerve tracts, reflex activity)

Unit II

06 hours

Digestive system

Anatomy of GI Tract with special reference to anatomy and functions of stomach,

(Acid production in the stomach, regulation of acid production through
parasympathetic nervous system, pepsin role in protein digestion) small intestine

54

PRINCIPAL

HYPORE COLLEGE OF PHARMACY

RONDAPALLI, JEYPORE (N) 764002

1.3.1 QLM GENDER

and large intestine, anatomy and functions of salivary glands, pancreas and liver, movements of GIT, digestion and absorption of nutrients and disorders of GIT.

Energetics

Formation and role of ATP, Creatinine Phosphate and BMR.

Unit III

Respiratory system

10 hours

Anatomy of respiratory system with special reference to anatomy of lungs, mechanism of respiration, regulation of respiration

Lung Volumes and capacities transport of respiratory gases, artificial respiration, and resuscitation methods.

Urinary system

Anatomy of urinary tract with special reference to anatomy of kidney and nephrons, functions of kidney and urinary tract, physiology of urine formation, micturition reflex and role of kidneys in acid base balance, role of RAS in kidney and disorders of kidney.

Unit IV

10 hours

Endocrine system

Classification of hormones, mechanism of hormone action, structure and functions of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas, pineal gland, thymus and their disorders.

Unit V

09 hours

Reproductive system

Anatomy of male and female reproductive system, Functions of male and female reproductive system, sex hormones, physiology of menstruation, fertilization, spermatogenesis, oogenesis, pregnancy and parturition

Introduction to genetics

Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance

55

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (N) 764002

1.3.1 QLM GENDER

BP 207 P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

- 1. To study the integumentary and special senses using specimen, models, etc.,
- 2. To study the nervous system using specimen, models, etc.,
- 3. To study the endocrine system using specimen, models, etc
- 4. To demonstrate the general neurological examination
- 5. To demonstrate the function of olfactory nerve
- To examine the different types of taste.
- 7. To demonstrate the visual acuity
- To demonstrate the reflex activity
- Recording of body temperature
- 10. To demonstrate positive and negative feedback mechanism.
 - Determination of tidal volume and vital capacity.
 - Study of digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.
 - 13. Recording of basal mass index
 - 14. Study of family planning devices and pregnancy diagnosis test.
 - 15. Demonstration of total blood count by cell analyser
 - Permanent slides of vital organs and gonads.

Recommended Books (Latest Editions)

- Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
- Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
- Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co,Riverview,MI USA

56

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALU, JEYPORE (K) 764902

1.3.1 QLM PROFESSIONAL ETHICS BP 703T. PHARMACY PRACTICE (Theory)

45 Hours

Scope: In the changing scenario of pharmacy practice in India, for successful practice of Hospital Pharmacy, the students are required to learn various skills like drug distribution, drug information, and therapeutic drug monitoring for improved patient care. In community pharmacy, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling for improved patient care in the community set up.

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

- 1. know various drug distribution methods in a hospital
- 2. appreciate the pharmacy stores management and inventory control
- monitor drug therapy of patient through medication chart review and clinical review
- 4. obtain medication history interview and counsel the patients
- identify drug related problems
- 6. detect and assess adverse drug reactions
- interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states
- 8. know pharmaceutical care services
- 9. do patient counseling in community pharmacy;
- 10. appreciate the concept of Rational drug therapy.

Unit I:

10 Hours

a) Hospital and it's organization

Definition, Classification of hospital- Primary, Secondary and Tertiary hospitals, Classification based on clinical and non- clinical basis, Organization Structure of a Hospital, and Medical staffs involved in the hospital and their functions.

b) Hospital pharmacy and its organization

Definition, functions of hospital pharmacy, Organization structure, Location, Layout and staff requirements, and Responsibilities and functions of hospital pharmacists.

c) Adverse drug reaction

Classifications - Excessive pharmacological effects, secondary pharmacological effects, idiosyncrasy, allergic drug reactions, genetically determined toxicity, toxicity following sudden withdrawal of drugs, Drug interaction- beneficial interactions, adverse interactions, and pharmacokinetic drug interactions, Methods for detecting

149

PRINCIPAL JEYYORE COLLEGE OF PHARMACY ROMDAPALLI, JEYPORE (K) 764002

1.3.1 QLMns, spPrROFESSIONAL ETHICS

drug reaction reporting and management.

d) Community Pharmacy

Organization and structure of retail and wholesale drug store, types and design, Legal requirements for establishment and maintenance of a drug store, Dispensing of proprietary products, maintenance of records of retail and wholesale drug store.

Unit II:

10 Hours

a) Drug distribution system in a hospital

Dispensing of drugs to inpatients, types of drug distribution systems, charging policy and labelling, Dispensing of drugs to ambulatory patients, and Dispensing of controlled drugs.

b) Hospital formulary

Definition, contents of hospital formulary, Differentiation of hospital formulary and Drug list, preparation and revision, and addition and deletion of drug from hospital formulary.

c) Therapeutic drug monitoring

Need for Therapeutic Drug Monitoring, Factors to be considered during the Therapeutic Drug Monitoring, and Indian scenario for Therapeutic Drug Monitoring.

d) Medication adherence

Causes of medication non-adherence, pharmacist role in the medication adherence, and monitoring of patient medication adherence.

e) Patient medication history interview

Need for the patient medication history interview, medication interview forms.

f) Community pharmacy management

Financial, materials, staff, and infrastructure requirements.

Unit III:

10 Hours

Organization, functions, Policies of the pharmacy and therapeutic committee in a) Pharmacy and therapeutic committee including drugs into formulary, inpatient and outpatient prescription, automatic stop order, and emergency drug list preparation.

Drug

b)

information services

150

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (N) 764002

1.3.1 Organical Poison Profit February School of Ing Aflerates, Tomputerised S

c) counseling Patient

Definition of patient counseling; steps involved in patient counseling, and Special cases that require the pharmacist

d) Education and training program in the hospital

Role of pharmacist in the education and training program, Internal and external training program, Services to the nursing homes/clinics, Code of ethics for community pharmacy, and Role of pharmacist in the interdepartmental communication and community health education.

e) Prescribed medication order and communication skills

Prescribed medication order- interpretation and legal requirements, and Communication skills- communication with prescribers and patients.

Unit IV

8 Hours

a)

preparation and implementation

Budget

Budget preparation and implementation

b) Clinical Pharmacy

Introduction to Clinical Pharmacy, Concept of clinical pharmacy, functions and responsibilities of clinical pharmacist, Drug therapy monitoring - medication chart review, clinical review, pharmacist intervention, Ward round participation, Medication history and Pharmaceutical care.

Dosing pattern and drug therapy based on Pharmacokinetic & disease pattern.

c) Over the counter (OTC) sales

Introduction and sale of over the counter, and Rational use of common over the counter medications.

Unit V 7 Hours

a) Drug store management and inventory control

Organisation of drug store, types of materials stocked and storage conditions, Purchase and inventory control: principles, purchase procedure, purchase order, procurement and stocking, Economic order quantity, Reorder quantity level, and Methods used for the analysis of the drug expenditure

b) Investigational use of drugs

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

1.3.1 QLM PROFESSIONAL ETHICS
pharmacist, advisory committee.

 c) Interpretation of Clinical Laboratory Tests Blood chemistry, hematology, and urinalysis

Recommended Books (Latest Edition):

- Merchant S.H. and Dr. J.S.Quadry. A textbook of hospital pharmacy, 4th ed. Ahmadabad: B.S. Shah Prakakshan; 2001.
- Parthasarathi G, Karin Nyfort-Hansen, Milap C Nahata. A textbook of Clinical Pharmacy Practice- essential concepts and skills, 1st ed. Chennai: Orient Longman Private Limited; 2004.
- William E. Hassan. Hospital pharmacy, 5th ed. Philadelphia: Lea & Febiger; 1986.
- 4. Tipnis Bajaj. Hospital Pharmacy, 1st ed. Maharashtra: Career Publications; 2008.
- Scott LT. Basic skills in interpreting laboratory data, 4thed. American Society of Health System Pharmacists Inc; 2009.
- Parmar N.S. Health Education and Community Pharmacy, 18th ed. India: CBS Publishers & Distributers; 2008.

Journals:

- 1. Therapeutic drug monitoring. ISSN: 0163-4356
- 2. Journal of pharmacy practice. ISSN: 0974-8326
- 3. American journal of health system pharmacy. ISSN: 1535-2900 (online)
- 4. Pharmacy times (Monthly magazine)

PRINCIPAL SEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002

1.3.1 QLM PROFESSIONAL ETHICS

BP 802T SOCIAL AND PREVENTIVE PHARMACY

Hours: 45

Scope:

The purpose of this course is to introduce to students a number of health issues and their challenges. This course also introduced a number of national health programmes. The roles of the pharmacist in these contexts are also discussed.

Objectives:

After the successful completion of this course, the student shall be able to:

- · Acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide.
- Have a critical way of thinking based on current healthcare development.
- Evaluate alternative ways of solving problems related tohealth and pharmaceutical issues

Course content:

10 Hours Unit I:

Concept of health and disease: Definition, concepts and evaluation of public health. Understanding the concept of prevention and control of disease, social causes of diseases and social problems of the sick.

Social and health education: Food in relation to nutrition and health, Balanced diet, Nutritional deficiencies, Vitamin deficiencies, Malnutrition and its prevention.

Sociology and health: Socio cultural factors related to health and disease, Impact of urbanization on health and disease, Poverty and health

Hygiene and health: personal hygiene and health care; avoidable habits

10 Hours

Preventive medicine: General principles of prevention and control of diseases such as cholera, SARS, Ebola virus, influenza, acute respiratory infections, malaria, chicken guinea, dengue, lymphatic filariasis, pneumonia, hypertension, diabetes mellitus, cancer, drug addiction-drug substance abuse

10 Hours

National health programs, its objectives, functioning and outcome of the following: HIV AND AIDS control programme, TB, Integrated disease surveillance program (IDSP), National leprosy control programme, National mental health program, National

PRINCIPAL

1.3.1 QLM PROFESSIONAL ETHICS

programme for prevention and control of deafness, Universal immunization programme, National programme for control of blindness, Pulse polio programme.

Unit IV: 08 Hours

National health intervention programme for mother and child, National family welfare programme, National tobacco control programme, National Malaria Prevention Program, National programme for the health care for the elderly, Social health programme; role of WHO in Indian national program

Unit V: 07 Hours

Community services in rural, urban and school health: Functions of PHC, Improvement in rural sanitation, national urban health mission, Health promotion and education in school.

Recommended Books (Latest edition):

- Short Textbook of Preventive and Social Medicine, Prabhakara GN, 2nd Edition, 2010, ISBN: 9789380704104, JAYPEE Publications
- Textbook of Preventive and Social Medicine (Mahajan and Gupta). Edited by Roy Rabindra Nath, Saha Indranil, 4th Edition, 2013, ISBN: 9789350901878, JAYPEE Publications
- Review of Preventive and Social Medicine (Including Biostatistics), Jain Vivek, 6th Edition, 2014, ISBN: 9789351522331, JAYPEE Publications
- Essentials of Community Medicine—A Practical Approach, Hiremath Lalita D, Hiremath Dhananjaya A, 2nd Edition, 2012, ISBN: 9789350250440, JAYPEE Publications
- Park Textbook of Preventive and Social Medicine, K Park, 21st Edition, 2011, ISBN-14: 9788190128285, BANARSIDAS BHANOT PUBLISHERS.
- 6. Community Pharmacy Practice, Ramesh Adepu, BSP publishers, Hyderabad

Recommended Journals:

1. Research in Social and Administrative Pharmacy, Elsevier, Ireland

PYTTNCIPAL TETPORE COLLEGE OF PHARMON RONDAPALLI, JETPORE (N) 754002

1.3.1 QLM_{505 T}PROFESSIONAL ETHICS

45 Hours

Scope: This course is designed to impart basic knowledge on important legislations related to the profession of pharmacy in India.

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

- The Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals.
- 2. Various Indian pharmaceutical Acts and Laws
- The regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals
- 4. The code of ethics during the pharmaceutical practice

Course Content:

UNIT-I 10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945:

Objectives, Definitions, Legal definitions of schedules to the Act and Rules

Import of drugs - Classes of drugs and cosmetics prohibited from import, Import under license or permit. Offences and penalties.

Manufacture of drugs - Prohibition of manufacture and sale of certain drugs,

Conditions for grant of license and conditions of license for manufacture of drugs, Manufacture of drugs for test, examination and analysis, manufacture of new drug, loan license and repacking license.

UNIT-II 10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945.

Detailed study of Schedule G, H, M, N, P,T,U, V, X, Y, Part XII B, Sch F & DMR (OA)

Sale of Drugs - Wholesale, Retail sale and Restricted license. Offences and penalties

Labeling & Packing of drugs- General labeling requirements and specimen labels for drugs and cosmetics, List of permitted colors. Offences and penalties.

Administration of the Act and Rules – Drugs Technical Advisory Board, Central drugs Laboratory, Drugs Consultative Committee, Government drug analysts, Licensing authorities, controlling authorities, Drugs Inspectors

UNIT-III 10 Hours

 Pharmacy Act -1948: Objectives, Definitions, Pharmacy Council of India; its constitution and functions, Education Regulations, State and Joint state pharmacy councils; constitution and functions, Registration of Pharmacists, Offences and

PRINCIPAL
JEYPORE COLLEGE OF PRARMACY
RONDAPALLI, JEYPORE (10) 764002

122

1.3.1 QLM PROFESSIONAL ETHICS

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 D efinition, 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

123

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (N) 764002

1.3.1 QLM PROFESSIONAL ETHICS

- 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)

7 11 11 11

JEYPORE COLLEGE OF PRARMACY RENDAPALLI, JEYPORE (X) 764002

HAZARDS AND SAFETY MANAGEMENT (MQA 201T)

Scope

This course is designed to convey the knowledge necessary to understand issues related to different kinds of hazard and their management. theoretical and practical discussions integrate the proficiency to handle the emergency situation in the pharmaceutical product development process and provides the principle based approach to solve the complex tribulations.

Objectives

At completion of this course it is expected that students will be able to

- Understand about environmental problems among learners.
- Impart basic knowledge about the environment and its allied problems.
- Develop an attitude of concern for the industry environment.
- Ensure safety standards in pharmaceutical industry
- Provide comprehensive knowledge on the safety management
- Empower an ideas to clear mechanism and management in different kinds of hazard management system
- Teach the method of Hazard assessment, procedure, methodology for provide safe industrial atmosphere.

THEORY

- Multidisciplinary nature of environmental studies: Natural 12 1. Resources, Renewable and non-renewable resources, Natural Hrs resources and associated problems,
 - a) Forest resources; b) Water resources; c) Mineral resources; d) Energy resources; e) Land resources Ecosystems: Concept of an ecosystem and Structure and function of an ecosystem. Environmental hazards: Hazards based on Air, Water, Soil and Radioisotopes.
- Air based hazards: Sources, Types of Hazards, Air circulation 12 maintenance industry for sterile area and non sterile area, Hrs Preliminary Hazard Analysis (PHA) Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system.
- Chemical based hazards: Sources of chemical hazards, 12 3 Hazards of Organic synthesis, sulphonating hazard, Organic Hrs solvent hazard, Control measures for chemical hazards,

JEYFORE COLLEGE OF PHARMACY ROHGAPALLI, JEYPORE (K) 764002 Management of combustible gases, Toxic gases and Oxygen displacing gases management, Regulations for chemical hazard, Management of over-Exposure to chemicals and TLV concept.

- Fire and Explosion: Introduction, Industrial processes and 12 hazards potential, mechanical electrical, thermal and process Hrs hazards. Safety and hazards regulations, Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system mechanical and chemical explosion, multiphase reactions, transport effects and global rates. Preventive and protective management from fires and explosion-electricity passivation, ventilation, and sprinkling, proofing, relief systems -relief valves, flares, scrubbers.
- Workplace hazards. Critical training for risk management, Process Hrs of hazard management, ICH guidelines on risk assessment and Risk management methods and Tools Factory act and rules, fundamentals of accident prevention, elements of safety programme and safety management, Physicochemical measurements of effluents, BOD, COD, Determination of some contaminants, Effluent treatment procedure, Role of emergency services.

REFERENCES

- Y.K. Sing, Environmental Science, New Age International Pvt, Publishers,
 Bangalore
- "Quantitative Risk Assessment in Chemical Process Industries" American Institute of Chemical Industries, Centre for Chemical Process safety.
- 3. Bharucha Erach, The Biodiversity of India, Mapin Pu blishing Pvt. Ltd.,
 Ahmedabad 380 013, India,
- 4. Hazardous Chemicals: Safety Management and Global Regulations, T.S.S. Dikshith, CRC press

PRINCIPAL

JEYPORE COLLEGE OF PHARMAI

RONDAPALLI, JEYPORE (K) 7640

CELLULAR AND MOLECULAR PHARMACOLOGY (MPL 104T)

Scope:

The subject imparts a fundamental knowledge on the structure and functions of cellular components and help to understand the interaction of these components with drugs. This information will further help the student to apply the knowledge in drug discovery process.

Objectives:

Upon completion of the course, the student shall be able to.

- Explain the receptor signal transduction processes.
- Explain the molecular pathways affected by drugs.
- Appreciate the applicability of molecular pharmacology and biomarkers in drug discovery process.
- Demonstrate molecular biology techniques as applicable for pharmacology

THEORY

Cell biology
 Structure and functions of cell and its organelles
 Genome organization. Gene expression and its regulation, importance of siRNA and micro RNA, gene mapping and gene cell cycles and its regulation.

Cell death— events, regulators, intrinsic and extrinsic pathways of apontosis

Necrosis and autophagy.

2 Cell signaling
Intercellular and intracellular signaling pathways.
Classification of receptor family and molecular structure ligand gated ion channels; G-protein coupled receptors, tyrosine kinase

Secondary messengers: cyclic AMP, cyclic GMP, calcium ion, inositol 1,4,5-trisphosphate, (IP3), NO, and diacylglycerol.

Detailed study of following intracellular signaling pathways: cyclic AMP signaling pathway, mitogen-activated protein kinase (MAPK) signaling, Janus kinase (JAK)/signal transducer and activator of transcription (STAT) signaling pathway.

218

PRINCIPAL
JEYPORE COLLEGE OF PHARMI
RONDAPALLI, JEYPORE (K) 164

3	Principles and applications of genomic and proteomic tools DNA electrophoresis, PCR (reverse transcription and real time), Gene sequencing, micro array technique, SDS page, ELISA and	12 Hrs
	western blotting,	
	Recombinant DNA technology and gene therapy	
	Basic principles of recombinant DNA technology-Restriction enzymes, various types of vectors. Applications of recombinant	
	PARTA A A A A A A A A A A A A A A A A A A	
	Gene therapy- Various types of gene transfer techniques, clinical applications and recent advances in gene therapy.	
		12
4	Pharmacogenomics	Hrs
	Gene mapping and cloning of disease gene.	

		1
4	Pharmacogenomics Gene mapping and cloning of disease gene. Genetic variation and its role in health/ pharmacology Polymorphisms affecting drug metabolism Genetic variation in drug transporters	Н
	Genetic variation in G protein coupled receptors Applications of proteomics science: Genomics, proteomics, metabolomics, functionomics, nutrigenomics	
	Immunotherapeutics Types of immunotherapeutics, humanisation antibody therapy, Immunotherapeutics in clinical practice	
	700000 P. O. C.	

12 Cell culture techniques Basic equipments used in cell culture lab. Cell culture media, 5 Hrs various types of cell culture, general procedure for cell cultures; isolation of cells, subculture, cryopreservation, characterization of cells and their application. Principles and applications of cell viability assays, glucose uptake assay, Calcium influx assays Principles and applications of flow cytometry b. Biosimilars

REFERENCES:

The Cell, A Molecular Approach. Geoffrey M Cooper.

Pharmacogenomics: The Search for Individualized Therapies. Edited by J. Licinio and M -L, Wong

3. Handbook of Cell Signaling (Second Edition) Edited by Ralph A. et.al

4. Molecular Pharmacology: From DNA to Drug Discovery. John Dickenson

5. Basic Cell Culture protocols by Cheril D.Helgason and Cindy L.Miller

6. Basic Cell Culture (Practical Approach) by J. M. Davis (Editor)

7. Animal Cell Culture: A Practical Approach by John R. Masters (Editor)

8. Current porotocols in molecular biology vol I to VI edited by Frederick M.Ausuvel et la.

COLLEGE OF PR

ADVANCED PHARMACOGNOSY - 1 (MPG 102T)

SCOPE

To learn and understand the advances in the field of cultivation and isolation of drugs of natural origin, various phytopharmaceuticals, nutraceuticals and their medicinal use and health benefits.

OBJECTIVES

Upon completion of the course, the student shall be able to know the,

- advances in the cultivation and production of drugs
- various phyto-pharmaceuticals and their source, its utilization and medicinal value.
- various nutraceuticals/herbs and their health benefits
- Drugs of marine origin
- Pharmacovigilance of drugs of natural origin

THEORY 60 Hrs

- 1. Plant drug cultivation: General introduction to the importance of 12 Pharmacognosy in herbal drug industry, Indian Council of Hrs Agricultural Research, Current Good Agricultural Practices. Current Good Cultivation Practices, Current Good Collection Practices, Conservation of medicinal plants- Ex-situ and Insitu conservation of medicinal plants.
- 2 Marine natural products: General methods of isolation and 12 purification, Study of Marine toxins, Recent advances in research Hrs in marine drugs, Problems faced in research on marine drugs such as taxonomical identification, chemical screening and their solution.
- Nutraceuticals: Current trends and future scope, Inorganic 12 3 mineral supplements, Vitamin supplements, Digestive enzymes, Dietary fibres, Cereals and grains, Health drinks of natural origin, Antioxidants, Polyunsaturated fatty acids, Herbs as functional foods, Formulation and standardization of neutraceuticals. Regulatory aspects, FSSAI guidelines, Sources, name of marker compounds and their chemical nature, medicinal uses and health benefits of following
 - i) Spirulina li) Soya bean lii) Ginseng iv) Garlic v) Broccoli vi) Green and Herbal Tea vii) Flax seeds viii) Black cohosh ix) Turmeric.

235

ORE COLLEGE OF PHARM RONDAPALLI, JEYPORE (K) 764002

- 4 Phytopharmaceuticals: Occurrence, isolation and characteristic 12 features (Chemical nature, uses in pharmacy, medicinal and Hrs health benefits) of following.
 - a) Carotenoids I) α and β Carotene II) Xanthophyll (Lutein)
 - b) Limonoids i) d-Limonene ii) α Terpineol
 - c) Saponins i) Shatavarins
 - d) Flavonoids I) Resveratrol II) Rutin III) Hesperidin IV) Naringin v) Quercetin
 - e) Phenolic acids- Ellagic acid
 - f) Vitamins
 - g) Tocotrienols and Tocopherols
 - Andrographolide, Glycolipids, Gugulipids, Withanolides, Vascine, Taxol
 - i) Miscellaneous
- 5 Pharmacovigilance of drugs of natural origin: WHO and 12 AYUSH guidelines for safety monitoring of natural medicine, Hrs Spontaneous reporting schemes for blodrug adverse reactions, bio drug-drug and bio drug-food interactions with suitable examples.

REFERENCES (Latest Editions of)

- Pharmacognosy G. E. Trease and W.C. Evans. Saunders Edinburgh, New York.
- 2. Pharmacognosy-Tyler, Brady, Robbers
- 3. Modem Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I&II
- 4. Text Book of Pharmacognosy by T.E. Wallis
- 5. Marine Natural Products-Vol.I to IV.
- 6. Natural products: A lab guide by Raphael Ikan , Academic Press 1991.
- Glimpses of Indian Ethano Pharmacology, P. Pushpangadam. Ulf Nyman.
 V.George Tropical Botanic Garden & Research Institute, 1995.
- Medicinal natural products (a biosynthetic approach), Paul M. Dewick, John Wiley & Sons Ltd., England, 1998.
- 9. Chemistry of Marine Natural Products- Paul J. Schewer 1973.
- 10. Herbal Drug Industry by RD. Choudhary, Eastern Publisher, New Delhi, 1996.
- 11. Cultivation of Medicinal Plants by C.K. Atal & B.M. Kapoor.
- 12. Cultivation and Utilization of Aromatic Plants, C.K. Atal & B.M. Kapoor
- Cultivation of medicinal and aromatic crops, AA Farooqui and B.S. Sreeramu. University Press, 2001.

PRINCIPAL SETTEM COLLEGE OF PRANCE

- 14. Natural Products from Plants, 1st edition, by Peter B. Kaufman, CRC Press, New York, 1998
- 15. Recent Advances in Phytochemistry- Vol. 1&4: Scikel Runeckles- Appleton Century crofts.
- 16. Text book of Pharmacognosy, C.K.Kokate, Purohit, Ghokhale, Nirali Prakasshan, 1996.
- Pharmacognosy and Pharmacobiotechnology, Ashutoshkar, New Age Publications, New Delhi.

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764007

PHYTOCHEMISTRY (MPG 103T)

SCOPE

Students shall be equipped with the knowledge of natural product drug discovery and will be able to isolate, identify and extract and the phytoconstituents

OBJECTIVES

Upon completion of the course, the student shall be able to know the,

- different classes of phytoconstituents, their biosynthetic pathways, their properties, extraction and general process of natural product drug discovery
- phytochemical fingerprinting and structure elucidation of phytoconstituents.

THEORY 60 Hrs

- Biosynthetic pathways and Radio tracing techniques: 12
 Constituents & their Biosynthesis, Isolation, Characterization and purification with a special reference to their importance in herbal industries of following phyto-pharmaceuticals containing drugs:
 - a) Alkaloids: Ephedrine, Quinine, Strychynine, Piperine, Berberine, Taxol, Vinca alkoloids.
 - b) Glycosides: Digitoxin, Glycyrrhizin, Sennosides, Bacosides, Quercitin.
 - c) Steroids: Hecogenin, guggulosterone and withanolides
 - d) Coumarin: Umbelliferone.
 - e) Terpenoids: Cucurbitacins
- Drug discovery and development: History of herbs as source of drugs and drug discovery, the lead structure selection process, structure development, product discovery process and drug registration, Selection and optimization of lead compounds with suitable examples from the following source: artemesin, andrographolides. Clinical studies emphasising on phases of clinical trials, protocol design for lead molecules.
- 3 Extraction and Phytochemical studies: Recent advances in 12 extractions with emphasis on selection of method and choice of Hrs solvent for extraction, successive and exhaustive extraction and other methods of extraction commonly used like microwave

PRINCIPAL
JETFORE COLLEGE OF PHARMACY
PONDAPALLI, JETFORE (10 78-002

238

assisted extraction, Methods of fractionation. Separation of phytoconstituents by latest CCCET, SCFE techniques including preparative HPLC and Flash column chromatography.

- Phytochemical finger printing: HPTLC and LCMS/GCMS 12 applications in the characterization of herbal extracts. Structure elucidation of phytoconstituents.
- 5 Structure elucidation of the following compounds by spectroscopic techniques like UV, IR, MS, NMR (1H, 13C)

 Hrs
 - a. Carvone, Citral, Menthol
 - b. Luteolin, Kaempferol
 - c. Nicotine, Caffeine Iv) Glycyrrhizin.

REFERENCES (Latest Editions of)

- 1. Organic chemistry by I.L. Finar Vol.II
- 2. Pharmacognosy by Trease and Evans, ELBS.
- 3. Pharmacognosy by Tylor and Brady.
- 4. Text book of Pharmacognosy by Wallis.
- 5. Clark's isolation and Identification of drugs by A.C. Mottal.
- 6. Plant Drug Analysis by Wagner & Bladt.
- Wilson and Gisvolds text book of Organic Medicinnal and Pharmaceutical Chemistry by Deorge. R.F.
- The Chemistry of Natural Products, Edited by R.H. Thomson, Springer International Edn. 1994.
- Natural Products Chemistry Practical Manual by Anees A Siddiqui and SeemiSiddiqui
- 10. Organic Chemistry of Natural Products, Vol. 1&2. Gurdeep R Chatwal.
- 11. Chemistry of Natural Products- Vol. 1 onwards IWPAC.
- 12. Modem Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I&II
- Medicinal Natural products a biosynthetic approach, Dewick PM, John Wiley & Sons, Toronto, 1998.
- Chemistry of Natural Products, Bhat SV, Nagasampagi BA, Meenakshi S, Narosa Publishing House, New Delhi.
- Pharmacognosy & Phytochemistry of Medicinal Plants, 2nd edition, Bruneton J. Interceptt Ltd., New York, 1999.

239

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
PONDAPALL, JEYPORE (K) 76400

ADVANCED PHARMACOGNOSY - I (MPG 102T)

SCOPE

To learn and understand the advances in the field of cultivation and isolation of drugs of natural origin, various phytopharmaceuticals, nutraceuticals and their medicinal use and health benefits.

OBJECTIVES

Upon completion of the course, the student shall be able to know the,

- advances in the cultivation and production of drugs
- various phyto-pharmaceuticals and their source, its utilization and medicinal value.
- various nutraceuticals/herbs and their health benefits
- Drugs of marine origin
- Pharmacovigilance of drugs of natural origin

THEORY 60 Hrs

- Plant drug cultivation: General introduction to the importance of 12 Pharmacognosy in herbal drug industry, Indian Council of Hrs Agricultural Research, Current Good Agricultural Practices, Current Good Cultivation Practices, Current Good Collection Practices, Conservation of medicinal plants- Ex-situ and Insitu conservation of medicinal plants.
- Marine natural products: General methods of isolation and 12 purification, Study of Marine toxins, Recent advances in research Hrs in marine drugs, Problems faced in research on marine drugs such as taxonomical identification, chemical screening and their solution.
- Nutraceuticals: Current trends and future scope, Inorganic 12 mineral supplements, Vitamin supplements, Digestive enzymes, Dietary fibres, Cereals and grains, Health drinks of natural origin, Antioxidants, Polyunsaturated fatty acids, Herbs as functional foods, Formulation and standardization of neutraceuticals, Regulatory aspects, FSSAI guidelines, Sources, name of marker compounds and their chemical nature, medicinal uses and health benefits of following
 - i) Spirulina li) Soya bean lii) Ginseng iv) Garlic v) Broccoli vi) Green and Herbal Tea vii) Flax seeds viii) Black cohosh ix) Turmeric.

235

RONDAPALLI, JEYPORE (K) 764002

- 4 Phytopharmaceuticals: Occurrence, isolation and characteristic 12 features (Chemical nature, uses in pharmacy, medicinal and Hrs health benefits) of following.
 - a) Carotenoids I) α and β Carotene II) Xanthophyll (Lutein)
 - b) Limonoids i) d-Limonene ii) α Terpineol
 - c) Saponins i) Shatavarins
 - d) Flavonoids i) Resveratrol ii) Rutin iii) Hesperidin iv) Naringin v) Quercetin
 - e) Phenolic acids- Ellagic acid
 - f) Vitamins
 - g) Tocotrienols and Tocopherols
 - Andrographolide, Glycolipids, Gugulipids, Withanolides, Vascine, Taxol
 - i) Miscellaneous
- 5 Pharmacovigilance of drugs of natural origin: WHO and 12 AYUSH guidelines for safety monitoring of natural medicine, Hrs Spontaneous reporting schemes for biodrug adverse reactions, bio drug-drug and bio drug-food interactions with suitable examples.

REFERENCES (Latest Editions of)

- Pharmacognosy G. E. Trease and W.C. Evans. Saunders Edinburgh, New York.
- 2. Pharmacognosy-Tyler, Brady, Robbers
- 3. Modem Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I&II
- 4. Text Book of Pharmacognosy by T.E. Wallis
- 5. Marine Natural Products-Vol.I to IV.
- 6. Natural products: A lab guide by Raphael Ikan , Academic Press 1991.
- Glimpses of Indian Ethano Pharmacology, P. Pushpangadam. Ulf Nyman. V.George Tropical Botanic Garden & Research Institute, 1995.
- Medicinal natural products (a biosynthetic approach), Paul M. Dewick, John Wiley & Sons Ltd., England, 1998.
- 9. Chemistry of Marine Natural Products- Paul J. Schewer 1973.
- 10. Herbal Drug Industry by RD. Choudhary, Eastern Publisher, New Delhi, 1996.
- 11. Cultivation of Medicinal Plants by C.K. Atal & B.M. Kapoor.
- 12. Cultivation and Utilization of Aromatic Plants, C.K. Atal & B.M. Kapoor
- 13. Cultivation of medicinal and aromatic crops, AA Farooqui and B.S. Sreeramu. University Press, 2001.

PRINCIPAL SETTEME COLLECT OF PRINCIPAL

14. Natural Products from Plants, 1st edition, by Peter B. Kaufman, CRC Press, New York, 1998

15. Recent Advances in Phytochemistry- Vol. 1&4: Scikel Runeckles- Appleton

Century crofts.

16. Text book of Pharmacognosy, C.K.Kokate, Purohit, Ghokhale, Nirali Prakasshan, 1996.

17. Pharmacognosy and Pharmacobiotechnology, Ashutoshkar, New Age Publications, New Delhi.

PHYTOCHEMISTRY (MPG 103T)

SCOPE

Students shall be equipped with the knowledge of natural product drug discovery and will be able to isolate, identify and extract and the phytoconstituents

OBJECTIVES

Upon completion of the course, the student shall be able to know the,

- different classes of phytoconstituents, their biosynthetic pathways, their properties, extraction and general process of natural product drug discovery
- phytochemical fingerprinting and structure elucidation of phytoconstituents.

THEORY 60 Hrs

- Biosynthetic pathways and Radio tracing techniques: 12
 Constituents & their Biosynthesis, Isolation, Characterization and purification with a special reference to their importance in herbal industries of following phyto-pharmaceuticals containing drugs:
 - a) Alkaloids: Ephedrine, Quinine, Strychynine, Piperine, Berberine, Taxol, Vinca alkoloids.
 - Glycosides: Digitoxin, Glycyrrhizin, Sennosides, Bacosides, Quercitin.
 - c) Steroids: Hecogenin, guggulosterone and withanolides
 - d) Coumarin: Umbelliferone.
 - e) Terpenoids: Cucurbitacins
- Drug discovery and development: History of herbs as source of drugs and drug discovery, the lead structure selection process, structure development, product discovery process and drug registration, Selection and optimization of lead compounds with suitable examples from the following source: artemesin, andrographolides. Clinical studies emphasising on phases of clinical trials, protocol design for lead molecules.
- Bestraction and Phytochemical studies: Recent advances in 12 extractions with emphasis on selection of method and choice of Hrs solvent for extraction, successive and exhaustive extraction and other methods of extraction commonly used like microwave

PRINCIPAL
JETPORE COLLEGE OF PHARMACY
POMBAPALLI, JETPORE (10 78-4702

238

assisted extraction, Methods of fractionation. Separation of phytoconstituents by latest CCCET, SCFE techniques including preparative HPLC and Flash column chromatography.

- Phytochemical finger printing: HPTLC and LCMS/GCMS 12
 applications in the characterization of herbal extracts. Structure elucidation of phytoconstituents.
- 5 Structure elucidation of the following compounds by spectroscopic techniques like UV, IR, MS, NMR (1H, 13C)
 Hrs
 - a. Carvone, Citral, Menthol
 - b. Luteolin, Kaempferol
 - c. Nicotine, Caffeine Iv) Glycyrrhizin.

REFERENCES (Latest Editions of)

- 1. Organic chemistry by I.L. Finar Vol.II
- 2. Pharmacognosy by Trease and Evans, ELBS.
- 3. Pharmacognosy by Tylor and Brady.
- 4. Text book of Pharmacognosy by Wallis.
- 5. Clark's isolation and Identification of drugs by A.C. Mottal.
- 6. Plant Drug Analysis by Wagner & Bladt.
- Wilson and Gisvolds text book of Organic Medicinnal and Pharmaceutical Chemistry by Deorge. R.F.
- The Chemistry of Natural Products, Edited by R.H. Thomson, Springer International Edn. 1994.
- Natural Products Chemistry Practical Manual by Anees A Siddiqui and SeemiSiddiqui
- 10. Organic Chemistry of Natural Products, Vol. 1&2. Gurdeep R Chatwal.
- 11. Chemistry of Natural Products- Vol. 1 onwards IWPAC.
- 12. Modem Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I&II
- Medicinal Natural products a biosynthetic approach, Dewick PM, John Wiley & Sons, Toronto, 1998.
- Chemistry of Natural Products, Bhat SV, Nagasampagi BA, Meenakshi S, Narosa Publishing House, New Delhi.
- Pharmacognosy & Phytochemistry of Medicinal Plants, 2nd edition, Bruneton J, Interceptt Ltd., New York, 1999.

239

PRINCIPAL PORE COLLEGE OF PHARMACY

INDUSTRIAL PHARMACOGNOSTICAL TECHNOLOGY (MPG 104T)

SCOPE

To understand the Industrial and commercial potential of drugs of natural origin, integrate traditional Indian systems of medicine with modern medicine and also to know regulatory and quality policy for the trade of herbals and drugs of natural origin.

OBJECTIVES

By the end of the course the student shall be able to know,

- the requirements for setting up the herbal/natural drug industry.
- the guidelines for quality of herbal/natural medicines and regulatory issues.
- the patenting/IPR of herbals/natural drugs and trade of raw and finished materials.

THEORY

60 Hrs

- Herbal drug industry: Infrastructure of herbal drug industry 12 involved in production of standardized extracts and various Hrs Current challenges upgrading dosage forms. in formulations. Entrepreneurship modernization of herbal Development, Project selection, project report, technical knowledge, Capital venture, plant design, layout and construction. Pilot plant scale -up techniques, case studies of herbal extracts. Formulation and production management of herbals.
- Regulatory requirements for setting herbal drug industry: 12 Global marketing management. Indian and International patent. Hrs law as applicable herbal drugs and natural products. Export - Import (EXIM) policy, TRIPS. Quality assurance in herbal/natural drug products. Concepts of TQM, GMP, GLP, ISO-9000.
- 3 Monographs of herbal drugs: General parameters of monographs of herbal drugs and comparative study in IP, USP, Ayurvedic Pharmacopoeia, Siddha and Unani Pharmacopoeia, American herbal pharmacopoeia, British herbal pharmacopoeia, WHO guidelines in quality assessment of herbal drugs.

240

PRINCIPAL JEYFORE COLLEGE OF PHARMACY MONDAFALLI, JEYFORE (TO 784002

- 4 Testing of natural products and drugs: Herbal medicines 12 clinical laboratory testing. Stability testing of natural products, Hrs protocols.
- Patents: Indian and international patent laws, proposed 12 amendments as applicable to herbal/natural products and Hrs process. Geographical indication, Copyright, Patentable subject maters, novelty, non obviousness, utility, enablement and best mode, procedure for Indian patent filling, patent processing, grant of patents, rights of patents, cases of patents, opposition and revocation of patents, patent search and literature, Controllers of patents.

REFERENCES (Latest Editions of)

- Herbal drug industry by R.D. Choudhary (1996), Eastern Publisher, New Delhi.
- GMP for Botanicals Regulatory and Quality issues on Phytomedicine by Pulok K Mukharjee (2003), 1st Edition, Business horizons Robert Verpoorte, New Delhi.
- Quality control of herbal drugs by Pulok K Mukarjee (2002), Business Horizons Pharmaceutical Publisher, New Delhi.
- PDR for Herbal Medicines (2000), Medicinal Economic Company, New Jersey.
- 5. Indian Herbal Pharmacopoela (2002), IDMA, Mumbal.
- Text book of Pharmacognosy by C.K. Kokate, Purohit, Gokhlae (1996), Nirali Prakashan, New Delhi.
- Text book of Pharmacognosy and Phytochemistry by Vinod D. Rangari (2002), Part I & II, Career Publication, Nasik, India.
- 8. Plant drug analysis by H.Wagner and S.Bladt, Springer, Berlin.
- Standardization of Botanicals. Testing and extraction methods of medicinal herbs by V. Rajpal (2004), Vol.I, Eastern Publisher, New Delhi.
- Phytochemical Dictionary. Handbook of Bioactive Compounds from Plants by J.B.Harborne, (1999), IInd Edition, Taylor and Francis Ltd, UK.
- 11. Herbal Medicine. Expanded Commission E Monographs by M.Blumenthal, (2004), IST Edition,
- Drug Formulation Manual by D.P.S.Kohli and D.H.Shah (1998), Eastern Publisher, New Delhi.

241

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY

PHARMACOGNOSY PRACTICAL - J (MPG 105P)

- 1. Analysis of Pharmacopoeial compounds of natural origin and their formulations by UV Vis spectrophotometer
- Analysis of recorded spectra of simple phytoconstituents
- Experiments based on Gas Chromatography
- 4. Estimation of sodium/potassium by flame photometry
- Development of fingerprint of selected medicinal plant extracts commonly used in herbal drug industry viz. Ashwagandha, Tulsi, Bael, Amla, Ginger, Aloe, Vidang, Senna, Lawsonia by TLC/HPTLC method.
- Methods of extraction
- Phytochemical screening 7.
- 8. Demonstration of HPLC- estimation of glycerrhizin
- Monograph analysis of clove oil
- 10. Monograph analysis of castor oil.
- 11. Identification of bioactive constituents from plant extracts
- 12. Formulation of different dosage forms and their standardisation.

242

MEDICINAL PLANT BIOTECHNOLOGY (MPG 201T)

SCOPE

To explore the knowledge of Biotechnology and its application in the improvement of quality of medicinal plants

OBJECTIVES

Upon completion of the course, the student shall be able to,

- Know the process like genetic engineering in medicinal plants for higher yield of Phytopharmaceuticals.
- Use the biotechnological techniques for obtaining and improving the quality of natural products/medicinal plants

THEORY 60 Hrs

- Introduction to Plant biotechnology: Historical perspectives, 12
 prospects for development of plant biotechnology as a source of Hrs
 medicinal agents. Applications in pharmacy and allied fields.
 Genetic and molecular biology as applied to pharmacognosy,
 study of DNA, RNA and protein replication, genetic code,
 regulation of gene expression, structure and complicity of
 genome, cell signaling, DNA recombinant technology.
- Different tissue culture techniques: Organogenesis and 15 embryogenesis, synthetic seed and monoclonal variation, Hrs Protoplast fusion, Hairy root multiple shoot cultures and their applications. Micro propagation of medicinal and aromatic plants. Sterilization methods involved in tissue culture, gene transfer in plants and their applications.
- 3 Immobilisation techniques & Secondary Metabolite 15 Production: Immobilization techniques of plant cell and its Hrs application on secondary metabolite Production. Cloning of plant cell: Different methods of cloning and its applications. Advantages and disadvantages of plant cell cloning. Secondary metabolism in tissue cultures with emphasis on production of medicinal agents. Precursors and elicitors on production of secondary metabolites.
- 4 Biotransformation and Transgenesis: Biotransformation, 13 bioreactors for pilot and large scale cultures of plant cells and Hrs retention of biosynthetic potential in cell culture. Transgenic

243

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 784002

plants, methods used in gene identification, localization and sequencing of genes, Application of PCR in plant genome analysis.

Application of 5 Fermentation technology: technology, Production of ergot alkaloids, single cell proteins, Hrs enzymes of pharmaceutical interest.

REFERENCES (Latest Editions of)

- Plant tissue culture, Bhagwani, vol 5, Elsevier Publishers.
- 2. Plant cell and Tissue Culture (Lab. Manual), JRMM. Yeoman.
- Elements in biotechnology by PK. Gupta, Rastogi Publications, New Delhi.
- 4. An introduction to plant tissue culture by MK. Razdan, Science Publishers.
- 5. Experiments in plant tissue culture by John HD and Lorin WR., Cambridge University Press.
- 6. Pharmaceutical biotechnology by SP. Vyas and VK. Dixit, CBS Publishers.
- 7. Plant cell and tissue culture by Jeffrey W. Pollard and John M Walker, Humana press.
- 8. Plant tissue culture by Dixon, Oxford Press, Washington DC, 1985
- Plant tissue culture by Street.
- 10. Pharmacognosy by G. E. Trease and WC. Evans, Elsevier.
- 11. Biotechnology by Purohit and Mathur, Agro-Bio, 3rd revised edition.
- 12. Biotechnological applications to tissue culture by Shargool, Peter D, Shargoal, CKC Press.
- 13. Pharmacognosy by Varo E. Tyler, Lynn R. Brady and James E. Robbert, That Tjen, NGO.
- 14. Plant Biotechnology, Ciddi Veerasham.

ADVANCED PHARMACOGNOSY - II (MPG 202T)

SCOPE

To know and understand the Adulteration and Deterioration that occurs in herbal natural drugs and methods of detection of the same. Study of herbal remedies and their validations, including methods of screening

OBJECTIVES

Upon completion of the course, the student shall be able to know the,

- validation of herbal remedies
- methods of detection of adulteration and evaluation techniques for the herbal drugs
- methods of screening of herbals for various biological properties

THEORY

60 Hrs

- 1. Herbal remedies Toxicity and Regulations: Herbals vs 12 Conventional drugs, Efficacy of Herbal medicine products, Hrs Validation of herbal therapies, Pharmacodynamic and Pharmacokinetic issues.
- Adulteration and Deterioration: Introduction, Types of 12 2 Adulteration/ Substitution of Herbal drugs, Causes and Measures Hrs of Adulteration, Sampling Procedures, Determination of Foreign Matter, DNA Finger printing techniques in identification of drugs of natural origin, detection of heavy metals, pesticide residues, phytotoxin, microbial contamination in herbs and their formulations.
- Ethnobotany and Ethnopharmacology: Ethnobotany in herbal 12 3 drug evaluation, Impact of Ethnobotany in traditional medicine, Hrs New development in herbals, Bio-prospecting tools for drug discovery, Role of Ethnopharmacology in drug evaluation, Reverse Pharmacology.
- Analytical Profiles of herbal drugs: Andrographis paniculata, 12 Boswellia serata, Coleus forskholii, Curcuma longa, Embelica Hrs officinalis, Psoralea corylifolia.
- Biological screening of herbal drugs: Introduction and Need for 12 Phyto-Pharmacological Screening, New Strategies for evaluating

245

PRINCIPAL JEYPORE COLLEGE OF PHARMACY

Natural Products, In vitro evaluation techniques for Antioxidants, Antimicrobial and Anticancer drugs. In vivo evaluation techniques for Anti-inflammatory, Antiulcer, Anticancer, Wound healing, Antidiabetic, Hepatoprotective, Cardio protective, Diuretics and Antifertility, Toxicity studies as per OECD guidelines.

REFERENCES (Latest Editions of)

- Glimpses of Indian Ethano Pharmacology by P. Pushpangadam. Ulf Nyman. V.George Tropical Botanic Garden & Research Institute.
- 2. Natural products: A lab guide by Raphael Ikan, Academic Press.
- 3. Pharmacognosy G. E. Trease and W.C. Evans. WB. Saunders Edinburgh, New York.
- 4. Pharmacognosy-Tyler, Brady, Robbers, Lee & Fetiger.
- Modern Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I & II, Springer Publishers.
- 6. Herbal Drug Industry by RD. Choudhary, Eastern Publishers, New Delhi.
- Text book of Pharmacognosy by C.K.Kokate, Purohit, Ghokhale, Nirali Prakashan.
- 8. Text Book of Pharmacognosy by T.E. Wallis, J & A Churchill Ltd., London.
- Quality control of herbal drugs by Pulok K Mukherjee, Business Horizons Pharmaceutical Publishers, New Delhi.
- 10. Indian Herbal Pharmacopoela, IDMA, Mumbal.
- 11. Text book of Pharmacognosy and Phytochemistry by Vinod D. Rangarl, Part I & II, Career Publication, Nasik, India.
- 12. Plant drug analysis by H.Wagner and S.Bladt, 2nd edition, Springer, Berlin.
- Standardization of Botanicals. Testing and extraction methods of medicinal herbs by V. Rajpal (2004), Vol.I, Eastern PublisherS, New Delhi.
- 14. Herbal Medicine. Expanded Commission E Monographs, M.Blumenthal.

246

TEMPONE COLLEGE OF PHARMACY

INDIAN SYSTEMS OF MEDICINE (MPG 203T)

SCOPE

To make the students understand thoroughly the principles, preparations of medicines of various Indian systems of medicine like Ayurveda, Siddha, Homeopathy and Unani. Also focusing on clinical research of traditional medicines, quality assurance and challenges in monitoring the safety of herbal medicines.

OBJECTIVES

After completion of the course, student is able to

- To understand the basic principles of various Indian systems of medicine
- To know the clinical research of traditional medicines, Current Good Manufacturing Practice of Indian systems of medicine and their formulations.

THEORY 60 Hrs

- Fundamental concepts of Ayurveda, Siddha, Unani and Homoeopathy systems of medicine
 Different dosage forms of the ISM.
 Ayurveda: Ayurvedic Pharmacopoeia, Analysis of formulations and bio crude drugs with references to: Identity, purity and quality.
 Siddha: Gunapadam (Siddha Pharmacology), raw drugs/Dhatu/Jeevam in Siddha system of medicine, Purification process (Suddhi).
- Naturopathy, Yoga and Aromatherapy practices

 a) Naturopathy Introduction, basic principles and treatment Hrs modalities.
 - b) Yoga Introduction and Streams of Yoga. Asanas, Pranayama, Meditations and Relaxation techniques.
 - c) Aromatherapy Introduction, aroma oils for common problems, carrier oils,
- Formulation development of various systems of medicine
 Salient features of the techniques of preparation of some of the Hrs important class of Formulations as per Ayurveda, Siddha, Homeopathy and Unani Pharmacopoeia and texts.

 Standardization,
 Shelf life and Stability studies of ISM formulations.

247

JETPONT COLLEGE OF PRINCIPALL ROMONPALLI, IETPONE (K) 164002

- 4 Schedule T Good Manufacturing Practice of Indian systems of medicine

 Components of GMP (Schedule T) and its objectives, Infrastructural requirements, working space, storage area, machinery and equipments, standard operating procedures, health and hygiene, documentation and records.

 Quality assurance in ISM formulation industry GAP, GMP and GLP. Preparation of documents for new drug application and export registration.
 - Challenges in monitoring the safety of herbal medicines: Regulation, quality assurance and control, National/Regional Pharmacopoeias.
 - 5 TKDL, Geographical indication Bill, Government bills in AYUSH, 12 ISM, CCRAS, CCRS, CCRH, CCRU Hrs

REFERENCES (Latest Editions of)

- Ayurvedic Pharmacopoeia, The Controller of Publications, Civil Lines, Govt. of India, New Delhi.
- Hand Book on Ayurvedic Medicines, H. Panda, National Institute of Industrial Research, New Delhi.
- Ayurvedic System of Medicine, Kaviraj Nagendranath Sengupata, Sri Satguru Publications, New Delhi.
- Ayurvedic Pharmacopoeia. Formulary of Ayurvedic Medicines, IMCOPS, Chennai.
- Homeopathic Pharmacopoeia. Formulary of Homeopathic Medicines, IMCOPS, Chennal.
- Homeopathic Pharmacy: An introduction & Hand book, Steven B. Kayne, Churchill Livingstone, New York.
- 7. Indian Herbal Pharmacopoeia, IDMA, Mumbai.
- 8. British Herbal Pharmacopoeia, bRITISH Herbal Medicine Association, UK.
- GMP for Botanicals Regulatory and Quality issues on Phytomedicine, Pulok K Mukharjee, Business Horizons, New Delhi.
- 10. Indian System of Medicine and Homeopathy in India, Planning and Evaluation Cell, Govt. of India, New Delhi.
- 11. Essential of Food and Nutrition, Swaminathan, Bappco, Bangalore.
- 12. Clinical Dietitics and Nutrition, F.P. Antia, Oxford University Press, Delhi,
- Yoga The Science of Holistic Living by V.K.Yoga, Vivekananda Yoga Prakashna Publishing, Bangalore.

PRINCIPAL THREE BULBE & PARENT

HERBAL COSMETICS (MPG 204T)

SCOPE

This subject deals with the study of preparation and standardization of herbal/natural cosmetics. This subject gives emphasis to various national and international standards prescribed regarding herbal cosmeceuticals.

OBJECTIVES

After completion of the course, student shall be able to,

- understand the basic principles of various herbal/natural cosmetic preparations
- current Good Manufacturing Practices of herbal/natural cosmetics as per the regulatory authorities

THEORY

60 Hrs

- Introduction: Herbal/natural cosmetics, Classification & 12
 Economic aspects. Hrs
 Regulatory Provisions relation to manufacture of cosmetics: License, GMP, offences & Penalties, Import & Export of Herbal/natural cosmetics, Industries involved in the production of Herbal/natural cosmetics.
- 2 Commonly used herbal cosmetics, raw materials, preservatives, 12 surfactants, humectants, oils, colors, and some functional herbs, Hrs preformulation studies, compatibility studies, possible interactions between chemicals and herbs, design of herbal cosmetic formulation.
- 3 Herbal Cosmetics: Physiology and chemistry of skin and 12 pigmentation, hairs, scalp, lips and nail, Cleansing cream, Hrs Lotions, Face powders, Face packs, Lipsticks, Bath products, soaps and baby product, Preparation and standardisation of the following:
 Tonic, Bleaches, Dentifrices and Mouth washes & Tooth Pastes, Cosmetics for Nails.
- 4 Cosmeceuticals of herbal and natural origin: Hair growth 12 formulations, Shampoos, Conditioners, Colorants & hair oils, Hrs Fairness formulations, vanishing & foundation creams, anti-sun burn preparations, moisturizing creams, deodorants.

249

CONTRACTOR CONTRACTOR

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

5 Analysis of Cosmetics, Toxicity screening and test methods: 12 Quality control and toxicity studies as per Drug and Cosmetics Hrs Act.

REFERENCES (Latest Editions of)

- Panda H. Herbal Cosmetics (Hand book), Asia Pacific Business Press Inc., New Delhi.
- Thomson EG. Modern Cosmetics, Universal Publishing Corporation, Mumbai.
- P.P.Sharma. Cosmetics Formulation, Manufacturing & Quality Control, Vandana Publications, New Delhi.
- 4. Supriya K B. Handbook of Aromatic Plants, Pointer Publishers, Jaipur.
- Skaria P. Aromatic Plants (Horticulture Science Series), New India Publishing Agency, New Delhi.
- Kathi Keville and Mindy Green. Aromatheraphy (A Complete Guide to the Healing Art), Sri Satguru Publications, New Delhi.
- Chattopadhyay PK. Herbal Cosmetics & Ayurvedic Medicines (EOU), National Institute of Industrial Research, Delhi.
- Balsam MS & Edward Sagarin. Cosmetics Science and Technology, Wiley Interscience, New York.

PHINCIPAL SEYPORE BOLLEGE OF PHARMACY SOMMAPALLI, SEYPORE (10 784002

1.3.1 QLM ENVIRONMENTAL SUSTAINABILITY BP 106RBT.REMEDIAL BIOLOGY (Theory)

30 Hours

Scope: To learn and understand the components of living world, structure and functional system of plant and animal kingdom.

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

- · know the classification and salient features of five kingdoms of life
- understand the basic components of anatomy & physiology of plant
- know understand the basic components of anatomy & physiology animal with special reference to human

UNIT I

07 Hours

Living world:

- Definition and characters of living organisms
- Diversity in the living world
- Binomial nomenclature
- Five kingdoms of life and basis of classification. Salient features of Monera, Potista, Fungi, Animalia and Plantae, Virus,

Morphology of Flowering plants

- Morphology of different parts of flowering plants Root, stem, inflorescence, flower, leaf, fruit, seed.
- General Anatomy of Root, stem, leaf of monocotyledons & Dicotylidones.

UNIT II

07 Hours

Body fluids and circulation

- Composition of blood, blood groups, coagulation of blood
- Composition and functions of lymph
- Human circulatory system
- Structure of human heart and blood vessels
- Cardiac cycle, cardiac output and ECG

Digestion and Absorption

- Human alimentary canal and digestive glands
- Role of digestive enzymes
- Digestion, absorption and assimilation of digested food

Breathing and respiration

- Human respiratory system
- Mechanism of breathing and its regulation
- · Exchange of gases, transport of gases and regulation of respiration
- Respiratory volumes

PRINCIPAL JEPPORE COLLEGE OF PHARMACY RONDAPALLI, IEIPORE (N) 764002

UNIT III

07 Hours

Excretory products and their elimination

- Modes of excretion
- Human excretory system- structure and function
- Urine formation
- Rennin angiotensin system

Neural control and coordination

- Definition and classification of nervous system
- Structure of a neuron
- Generation and conduction of nerve impulse
- Structure of brain and spinal cord
- Functions of cerebrum, cerebellum, hypothalamus and medulla oblongata

Chemical coordination and regulation

- Endocrine glands and their secretions
- Functions of hormones secreted by endocrine glands

Human reproduction

- Parts of female reproductive system
- Parts of male reproductive system
- Spermatogenesis and Oogenesis
- Menstrual cycle

UNIT IV

05 Hours

Plants and mineral nutrition:

- Essential mineral, macro and micronutrients
- Nitrogen metabolism, Nitrogen cycle, biological nitrogen fixation

Photosynthesis

 Autotrophic nutrition, photosynthesis, Photosynthetic pigments, Factors affecting photosynthesis.

UNIT V

04 Hours

Plant respiration: Respiration, glycolysis, fermentation (anaerobic).

Plant growth and development

Phases and rate of plant growth, Condition of growth, Introduction to plant growth regulators

Cell - The unit of life

Structure and functions of cell and cell organelles. Cell division

Tissues

Definition, types of tissues, location and functions.

PRÍNCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (X) 764002

Text Books

- a. Text book of Biology by S. B. Gokhale
- b. A Text book of Biology by Dr. Thulajappa and Dr. Seetaram.

Reference Books

- a. A Text book of Biology by B,V. Sreenivasa Naidu
- b. A Text book of Biology by Naidu and Murthy
- c. Botany for Degree students By A.C.Dutta.
- d.Outlines of Zoology by M. Ekambaranatha ayyer and T. N. Ananthakrishnan.
- e. A manual for pharmaceutical biology practical by S.B. Gokhale and C. K. Kokate

PRINCIPAL
PEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

30 Hours

- 1. Introduction to experiments in biology
 - a) Study of Microscope
 - b) Section cutting techniques
 - c) Mounting and staining
 - d) Permanent slide preparation
- 2. Study of cell and its inclusions
- 3. Study of Stem, Root, Leaf, seed, fruit, flower and their modifications
- 4. Detailed study of frog by using computer models
- Microscopic study and identification of tissues pertinent to Stem, Root Leaf, seed, fruit and flower
- 6. Identification of bones
- 7. Determination of blood group
- 8. Determination of blood pressure
- 9. Determination of tidal volume

Reference Books

- 1. Practical human anatomy and physiology. by S.R.Kale and R.R.Kale.
- A Manual of pharmaceutical biology practical by S.B.Gokhale, C.K.Kokate and S.P.Shriwastava.
- Biology practical manual according to National core curriculum .Biology forum of Karnataka. Prof .M.J.H.Shafi

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
ROKDAPALLI, JEYPORE (X) 764002

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:

- Create the awareness about environmental problems among learners.
- 2. Impart basic knowledge about the environment and its allied problems.

Develop an attitude of concern for the environment.

- Motivate learner to participate in environment protection and environment improvement.
- 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

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (X) 764002

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

BP 405 T.PHARMACOGNOSY AND PHYTOCHEMISTRY I (Theory)

Scope: The subject involves the fundamentals of Pharmacognosy like scope, classification of crude drugs, their identification and evaluation, phytochemicals present in them and their medicinal properties.

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

- to know the techniques in the cultivation and production of crude drugs
- to know the crude drugs, their uses and chemical nature
- know the evaluation techniques for the herbal drugs
- to carry out the microscopic and morphological evaluation of crude drugs

Course Content:

10 Hours

UNIT-I

Introduction to Pharmacognosy:

- (a) Definition, history, scope and development of Pharmacognosy
- (b) Sources of Drugs Plants, Animals, Marine & Tissue culture
- (c) Organized drugs, unorganized drugs (dried latex, dried juices, dried extracts, gums and mucilages, oleoresins and oleo- gum -resins).

Alphabetical, morphological, taxonomical, chemical, pharmacological, chemo and sero taxonomical classification of drugs

Quality control of Drugs of Natural Origin:

Adulteration of drugs of natural origin. Evaluation by organoleptic, microscopic, physical, chemical and biological methods and properties.

Quantitative microscopy of crude drugs including lycopodium spore method, leafconstants, camera lucida and diagrams of microscopic objects to scale with camera lucida.

10 Hours

Cultivation, Collection, Processing and storage of drugs of natural origin:

Cultivation and Collection of drugs of natural origin

Factors influencing cultivation of medicinal plants.

Plant hormones and their applications.

Polyploidy, mutation and hybridization with reference to medicinal plants

Conservation of medicinal plants

UNIT-III Plant tissue culture: 07 Hours

Historical development of plant tissue culture, types of cultures, Nutritional requirements, growth and their maintenance.

Applications of plant tissue culture in pharmacognosy.

Edible vaccines

102

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002

UNIT IV

10 Hours

Pharmacognosy in various systems of medicine:

Role of Pharmacognosy in allopathy and traditional systems of medicine namely, Ayurveda, Unani, Siddha, Homeopathy and Chinese systems of medicine.

Introduction to secondary metabolites:

Definition, classification, properties and test for identification of Alkaloids, Glycosides, Flavonoids, Tannins, Volatile oil and Resins

UNIT V 08 Hours

Study of biological source, chemical nature and uses of drugs of natural origin containing following drugs

Plant Products:

Fibers - Cotton, Jute, Hemp

Hallucinogens, Teratogens, Natural allergens

Primary metabolites:

General introduction, detailed study with respect to chemistry, sources, preparation, evaluation, preservation, storage, therapeutic used and commercial utility as Pharmaceutical Aids and/or Medicines for the following Primary metabolites:

Carbohydrates: Acacia, Agar, Tragacanth, Honey

Proteins and Enzymes: Gelatin, casein, proteolytic enzymes (Papain, bromelain, serratiopeptidase, urokinase, streptokinase, pepsin).

Lipids(Waxes, fats, fixed oils): Castor oil, Chaulmoogra oil, Wool Fat, Bees Wax

Marine Drugs:

Novel medicinal agents from marine sources

DEVPORE COLLEGE OF PHARMACY RONDAPALLI, JEYFORE (K) 764002

BP408 P. PHARMACOGNOSY AND PHYTOCHEMISTRY I (Practical)

- 1. Analysis of crude drugs by chemical tests: (i)Tragaccanth (ii) Acacia (iii)Agar (iv) Gelatin (v) starch (vi) Honey (vii) Castor oil
- 2. Determination of stomatal number and index
- Determination of vein islet number, vein islet termination and paliside ratio.
- 4. Determination of size of starch grains, calcium oxalate crystals by eye piece
- 5. Determination of Fiber length and width
- 6. Determination of number of starch grains by Lycopodium spore method
- 7. Determination of Ash value
- 8. Determination of Extractive values of crude drugs
- 9. Determination of moisture content of crude drugs
- 10. Determination of swelling index and foaming

Recommended Books: (Latest Editions)

- 1. W.C.Evans, Trease and Evans Pharmacognosy, 16th edition, W.B. Sounders & Co.,
- 2. Tyler, V.E., Brady, L.R. and Robbers, J.E., Pharmacognosy, 9th Edn., Lea and
- Text Book of Pharmacognosy by T.E. Wallis
- 4. Mohammad Ali. Pharmacognosy and Phytochemistry, CBS Publishers &
- Text book of Pharmacognosy by C.K. Kokate, Purohit, Gokhlae (2007), 37th Edition.
- Herbal drug industry by R.D. Choudhary (1996), Ist Edn, Eastern Publisher, New
- 7. Essentials of Pharmacognosy, Dr.SH.Ansari, IInd edition, Birla publications, New
- Practical Pharmacognosy: C.K. Kokate, Purohit, Gokhlae
- Anatomy of Crude Drugs by M.A. Iyengar

PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE (K) 764002

BP504 T. PHARMACOGNOSY AND PHYTOCHEMISTRY II (Theory)

Scope: The main purpose of subject is to impart the students the knowledge of how the secondary metabolites are produced in the crude drugs, how to isolate and identify and produce them industrially. Also this subject involves the study of producing the plants and phytochemicals through plant tissue culture, drug interactions and basic principles of traditional system of medicine

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

- I. to know the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents
- 2. to understand the preparation and development of herbal formulation.
- to understand the herbal drug interactions
- to carryout isolation and identification of phytoconstituents

Course Content:

7 Hours UNIT-I

Metabolic pathways in higher plants and their determination

 a) Brief study of basic metabolic pathways and formation of different secondary metabolites through these pathways- Shikimic acid pathway, Acetate pathways and Amino acid pathway. b) Study of utilization of radioactive isotopes in the investigation of Biogenetic studies.

UNIT-II

General introduction, composition, chemistry & chemical classes, biosources, therapeutic uses and commercial applications of following secondary metabolites:

Alkaloids: Vinca, Rauwolfia, Belladonna, Opium, Phenylpropanoids and Flavonoids: Lignans, Tea, Ruta

Steroids, Cardiac Glycosides & Triterpenoids: Liquorice, Dioscorea, Digitalis

Volatile oils: Mentha, Clove, Cinnamon, Fennel, Coriander,

Tannins: Catechu, Pterocarpus

Resins: Benzoin, Guggul, Ginger, Asafoetida, Myrrh, Colophony

Glycosides: Senna, Aloes, Bitter Almond

Iridoids, Other terpenoids & Naphthaquinones: Gentian, Artemisia, taxus, carotenoids

06 Hours UNIT-III

Isolation, Identification and Analysis of Phytoconstituents

- a) Terpenoids: Menthol, Citral, Artemisin
- b) Glycosides: Glycyrhetinic acid & Rutin
- c) Alkaloids: Atropine, Quinine, Reserpine, Caffeine
- d) Resins: Podophyllotoxin, Curcumin

10 Hours UNIT-IV

Industrial production, estimation and utilization of the following phytoconstituents: Forskolin, Sennoside, Artemisinin, Diosgenin, Digoxin, Atropine, Podophyllotoxin, Caffeine, Taxol, Vincristine and Vinblastine

8 Hours UNIT V

Basics of Phytochemistry

Modern methods of extraction, application of latest techniques like Spectroscopy, chromatography and electrophoresis in the isolation, purification and identification of crude drugs.

> PRINCIPAL JEYPORE COLLEGE OF PHARMACY RONDAPALLI, IEYPORE (K) 764002

BP 508 P. PHARMACOGNOSY AND PHYTOCHEMISTRY II (Practical) 4 Hours/Week

- Morphology, histology and powder characteristics & extraction & detection of: Cinchona, Cinnamon, Senna, Clove, Ephedra, Fennel and Coriander
- 2. Exercise involving isolation & detection of active principles
 - Caffeine from tea dust.
 - b. Diosgenin from Dioscorea
 - c. Atropine from Belladonna
 - d. Sennosides from Senna
- 3. Separation of sugars by Paper chromatography
- 4. TLC of herbal extract
- Distillation of volatile oils and detection of phytoconstitutents by TLC
- Analysis of crude drugs by chemical tests: (i) Asafoetida (ii) Benzoin (iii) Colophony (iv) Aloes (v) Myrrh

Recommended Books: (Latest Editions)

- W.C.Evans, Trease and Evans Pharmacognosy, 16th edition, W.B. Sounders & Co., London, 2009.
- Mohammad Ali. Pharmacognosy and Phytochemistry, CBS Publishers & Distribution, New Delhi.
- Text book of Pharmacognosy by C.K. Kokate, Purohit, Gokhlae (2007), 37th Edition, Nirali Prakashan, New Delhi.
- Herbal drug industry by R.D. Choudhary (1996), Ist Edn, Eastern Publisher, New Delhi
- Essentials of Pharmacognosy, Dr.SH.Ansari, IInd edition, Birla publications, New Delhi, 2007
- Herbal Cosmetics by H.Pande, Asia Pacific Business press, Inc., New Delhi.
- A.N. Kalia, Textbook of Industrial Pharmacognosy, CBS Publishers, New Delhi, 2005.
- 8. R Endress, Plant cell Biotechnology, Springer-Verlag, Berlin, 1994.
- 9. Pharmacognosy & Pharmacobiotechnology. James Bobbers, Marilyn KS, VE Tylor.
- 10. The formulation and preparation of cosmetic, fragrances and flavours.
- 11. Remington's Pharmaceutical sciences.
- Text Book of Biotechnology by Vyas and Dixit.
- 13. Text Book of Biotechnology by R.C. Dubey.

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

45 hours

Scope: This subject gives the student the knowledge of basic understanding of herbal drug industry, the quality of raw material, guidelines for quality of herbal drugs, herbal cosmetics, natural sweeteners, nutraceutical etc. The subject also emphasizes on Good Manufacturing Practices (GMP), patenting and regulatory issues of herbal drugs

Objectives: Upon completion of this course the student should be able to:

- understand raw material as source of herbal drugs from cultivation to herbal drug product
- 2. know the WHO and ICH guidelines for evaluation of herbal drugs
- 3. know the herbal cosmetics, natural sweeteners, nutraceuticals
- appreciate patenting of herbal drugs, GMP.

Course content:

UNIT-I 11 Hours

Herbs as raw materials

Definition of herb, herbal medicine, herbal medicinal product, herbal drug preparation Source of Herbs Selection, identification and authentication of herbal materials

Processing of herbal raw material

Biodynamic Agriculture

Good agricultural practices in cultivation of medicinal plants including Organic farming. Pest and Pest management in medicinal plants: Biopesticides/Bioinsecticides.

Indian Systems of Medicine

a) Basic principles involved in Ayurveda, Siddha, Unani and Homeopathy

 b) Preparation and standardization of Ayurvedic formulations viz Aristas and Asawas, Ghutika, Churna, Lehya and Bhasma.

UNIT-II 7 Hours

Nutraceuticals

General aspects, Market, growth, scope and types of products available in the market. Health benefits and role of Nutraceuticals in ailments like Diabetes, CVS diseases, Cancer, Irritable bowel syndrome and various Gastro intestinal diseases.

Study of following herbs as health food: Alfaalfa, Chicory, Ginger, Fenugreek, Garlic, Honey, Amla, Ginseng, Ashwagandha, Spirulina

Herbal-Drug and Herb-Food Interactions: General introduction to interaction and classification. Study of following drugs and their possible side effects and interactions: Hypercium, kaya-kaya, Ginkobiloba, Ginseng, Garlic, Pepper & Ephedra.

UNIT-III

Herbal Cosmetics

10 Hours

PRINCIPAL
JEYPORE COLLEGE OF PHARMACY
RONDAPALLI, JEYPORE (K) 764002

Sources and description of raw materials of herbal origin used via, fixed oils, waxes, gums colours, perfumes, protective agents, bleaching agents, antioxidants in products such as skin care, hair care and oral hygiene products.

Herbal excipients:

Herbal Excipients - Significance of substances of natural origin as excipients - colorants, sweeteners, binders, diluents, viscosity builders, disintegrants, flavors & perfumes.

Herbal formulations:

Conventional herbal formulations like syrups, mixtures and tablets and Novel dosage forms like phytosomes

UNIT- IV 10 Hours

Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs Stability testing of herbal drugs.

Patenting and Regulatory requirements of natural products:

a) Definition of the terms: Patent, IPR, Farmers right, Breeder's right, Bioprospecting and Biopiracy

 b) Patenting aspects of Traditional Knowledge and Natural Products. Case study of Curcuma & Neem.

Regulatory Issues - Regulations in India (ASU DTAB, ASU DCC), Regulation of manufacture of ASU drugs - Schedule Z of Drugs & Cosmetics Act for ASU drugs.

UNIT-V 07 Hours

General Introduction to Herbal Industry

Herbal drugs industry: Present scope and future prospects.

A brief account of plant based industries and institutions involved in work on medicinal and aromatic plants in India.

Schedule T - Good Manufacturing Practice of Indian systems of medicine

Components of GMP (Schedule - T) and its objectives

Infrastructural requirements, working space, storage area, machinery and equipments, standard operating procedures, health and hygiene, documentation and records.

PRINCIPAL
IEYPORE COLLEGE OF PHARMACY
ROWDAPALL, JEYPORE (K) 764002

BP 609 P. HERBAL DRUG TECHNOLOGY (Practical)

4 hours/ week

- To perform preliminary phytochemical screening of crude drugs.
- 2. Determination of the alcohol content of Asava and Arista
- 3. Evaluation of excipients of natural origin
- Incorporation of prepared and standardized extract in cosmetic formulations like creams, lotions and shampoos and their evaluation.
- Incorporation of prepared and standardized extract in formulations like syrups, mixtures and tablets and their evaluation as per Pharmacopoeial requirements.
- 6. Monograph analysis of herbal drugs from recent Pharmacopoeias
- 7. Determination of Aldehyde content
- 8. Determination of Phenol content
- Determination of total alkaloids

Recommended Books: (Latest Editions)

- 1. Textbook of Pharmacognosy by Trease & Evans.
- 2. Textbook of Pharmacognosy by Tyler, Brady & Robber.
- Pharmacognosy by Kokate, Purohit and Gokhale
- 4. Essential of Pharmacognosy by Dr.S.H.Ansari
- Pharmacognosy & Phytochemistry by V.D.Rangari
- Pharmacopoeal standards for Ayurvedic Formulation (Council of Research in Indian Medicine & Homeopathy)
- Mukherjee, P.W. Quality Control of Herbal Drugs: An Approach to Evaluation of Botanicals. Business Horizons Publishers, New Delhi, India, 2002.

PRINCIPAL JEYPORE COLLEGE OF PHARMAGY RONDAPALLI, JEYPORE (K) 764002