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7.1.1: Measures initiated by the Institution for the promotion of gender equity during the year

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GENDER EQUITY AND SENSITIZATION IN CURRICULAR AND CO-CURRICULAR ACTIVITIES

GENDER SENSITIZATION ACTIVITIES



Academic year	2023-24
Number of Activities	3

NUMBER OF PARTICIPANTS OF GENDER SENSITIZATION ACTIVITIES



Academic year	2023-24		
Number of Activities	3		
Number of Participants	529		

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No 619 Tsi Cruss, Bergin and Hungasandra No.6/9, 1st Cross, Begur Road, Hongasandra, Bengaluru -560'068'''e D: +91- 80 - 61754694; Fax: +91- 80 -61754699; www.theoxford.edu e-mail: pharmacyprincipal@theoxford.edu; info@theoxford.edu;

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GENDER SENSITIZATION ACTIVITIES

SL .N O	PARTICULARS	NO. OF PARTICIPANTS
	2023-24	
1	National Girl Child Day	350
2	International Women's Day	87
3	Guest Talk on "Opportunities for Girl Graduates in Pharmaceutical Sales & Marketing"	92

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2023-24

GENDER SENSITIZATION ACTION PLAN

SI. No	Date	Activity	Description	Strategy
1.	24-01-2024	National Girl Child Day	Awareness regarding inequalities faced by girl children, regarding the importance of female education, health care and nutrition	Programmes to create awareness and improve the understanding among students, the rights and need of education to girl child
2.	08-03-2024	International Women's Day	Promoting awareness among women and facilitate the importance of education, equality and privileges to women in the society.	Speech on the theme "Invest in Women: Accelerate Progress". Organizing Photobooth competition
3.	First week of May	Awareness program	Awareness program on diverse and promising roles to girl graduates that contribute to healthcare advancements and even their personal growth	Talk on "Opportunities for Girl Graduates in Pharmaceutical Sales & Marketing".

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DATE: 16/01/2024

CIRCULAR

All the students, teaching and non-teaching staff of The Oxford College of Pharmacy are hereby informed that program on "NATIONAL GIRL CHILD DAY 2024" for the Academic Year 2023-24 will be conducted on 25/01/2024. We look forward for the active participation for the same. All interested students are requested to give your name to the event coordinator.

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1.Office

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CHILDREN'S EDUCATION SOCIETY (REGD.)

THE OXFORD COLLEGE OF PHARMACY



1st Main Rd, Hongasandra, Bengaluru, Karnataka 560068

CORDIALLY INVITE YOU FOR THE AWARENESS PROGRAMME ON

"NATIONAL GIRL CHILD DAY"

"Digital Generation, Our Generation, Our Time is Now-Our Rights, Our Future"



Organized by

NSS Committee, TOCP, Bangalore

On 25THJANUARY 2024, AT 10:00 AM.



CHIEF PATRON

Dr. S.N.V.L. NARASIMHA RAJU Chairman The Oxford Educational Institutions Dr. PADMAA M PAARAKH Principal, The Oxford College of Pharmacy

CONVENER

BROCHURE

NSS CO-ORDINATOR

Mrs. NAGALAKSHMI R Assistant Professor The Oxford College of Pharmacy

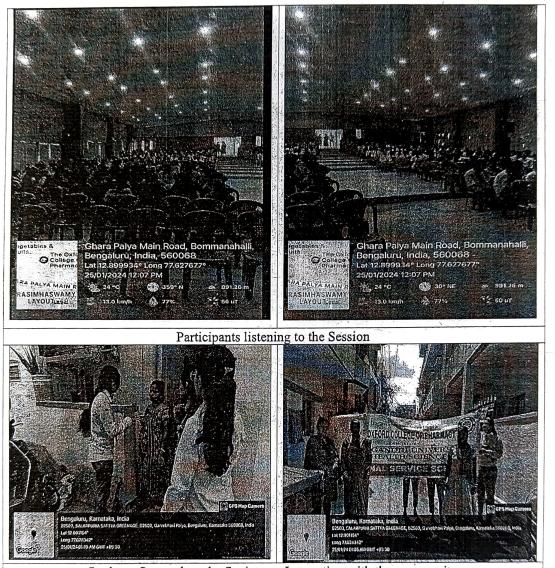


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Students Outreach to the Society -- Interacting with the community

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OUTCOME OF THE PROGRAM

The importance of celebrating National Girl Child Day and its significance of bringing equality, eliminating any kind of discrimination, and to provide a safe environment for their growth successfully reached the participants and increased the awareness about it in them. All the 350 participants in and out of the campus were benefitted as it gave a new insight regarding the ways to protect and safe guard the rights of girl child in the society. The equality and freedom start from the family and helps in building a better society. These guiding principles through initiatives like "Beti Bachao Beti Padhao" to effect behavioural change in society's attitude towards girl child and inspire a collective effort towards their holistic development. The students who participated this program were keen to spread awareness to the society via their neighbours, community by passing this information gained. Few students got involved within their residential community and arranged awareness program as part of this program of spreading awareness.

END OF REPORT





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PREAMBLE

The Department of Pharmaceutics under NSS Committee, The Oxford College of Pharmacy, Bangalore celebrated "National Girl Child Day" on 25th January 2024. Mrs R Nagalakshmi and Mrs. Divya S Kumar, Assistant Professor, Department of Pharmaceutics, initiated the celebration of the program along with students. There were around 350 participants.

The content of the Session:

"National Girl Child Day" celebration was organized by The Oxford College of Pharmacy, Bangalore on 25th January 2024" with the theme "Digital Generation, Our Generation, Our Time is Now—Our Rights, Our Future". The program started with the welcoming of the audience and briefed about the history and significance of observing this day. Mrs R Nagalakshmi, Assisstant Professor delivered speech regarding the importance of 'Beti Bachao Beti Padahao' and also informed about various schemes for welfare of girl child by the government. The National Girl Child Day was first observed on January 24, 2008 by the Ministry of Women and Child Development. It was decided to observe the day to tackle issues related to inequalities that girls face in society. The main objectives for observing this day is to provide support and opportunities to girls, by raising awareness regarding inequalities faced by girl children, regarding the importance of female education, health care and nutrition and also to raise awareness regarding the importance of their empowerment. The main objective of National Girl Child Day 2024 is to promote the welfare of girl children in India. However, there are various factors that need to be taken into consideration which is being emphasized on National Girl Child Day 2024 were also briefed by the speaker such as

- To create awareness among people to protect and raise girl child with equality in terms of education, health and other opportunities in life.
- To promote the idea of the elimination of any form of discrimination against the girl child at home or outside home.





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- To accept girl child/children and welcome them into homes and live with respect and love and abandon the evil ideology of killing girl children in the womb and female infanticide.
- To educate people at large about the importance of girl children and the declining sex ratio in India and eventually to change their mindset.
- To create a safe environment for girls to live safely inside and outside their homes.

Dr Gururaj S Kulkarni, HOD, Department of Pharmaceutics, The Oxford College of Pharmacy, started his speech with the quote "A girl with a dream can change the world. Let's support and uplift every girl's aspiration." He also shared his views regarding the role of students in spreading awareness and achieve the goal of celebrating the National Girl Child Day. In the session, students too actively shared their thoughts and taken the pledge to have a better society for girls. The students after the indoor session went to the nearby community to spread awareness regarding the Beti Bachhao, Beti Padhao scheme, students went in small group and interacted with the community people. They made them aware of different schemes also available for benefit of girl children in bank as well as education institutes like Sukanya samridhi plan etc. No. of Participants: 350

Schedule: On 25^h Jan 2024

Programme
Speech-Theme:"Digital Generation, Our Generation, Our Time is Now-
Our Rights, Our Future"



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DATE: 5/03/2024

CIRCULAR

All the teaching, non -teaching and students of The Oxford College of Pharmacy are hereby informed that programme on "International Women's Day 2024" for the Academic Year 2023-24 will be celebrated on the 9th of March 2024. All are requested to assemble in the room number 501 at 12:00 PM. We look forward for the active participation for the same.

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PREAMBLE

On 9th March, 2024, The Oxford College of Pharmacy, Bengaluru, under NSS committee organized International Women's Day with the theme "Invest in women: Accelerate progress". There were 87 participants in the program.On International Women's Day 2024, we stand united to celebrate the remarkable achievements of women around the globe and reaffirm our commitment to gender equality. This year's theme, "Invest in Women: Accelerate Progress," underscores the urgent need to prioritize investments in women's empowerment, education, and opportunities. By unlocking the full potential of women and girls, we can accelerate progress towards a more just, equitable, and prosperous world for all. Today, we honour the trailblazers who have shattered barriers and paved the way for future generations, while also recognizing the ongoing challenges that women continue to face. Together, let us recommit to building a future where every woman and girl can thrive, contribute, and lead with dignity and equality.

The Content Of The Session

The program commenced with welcoming the audience and a speaker delivering remarks on the significance of the day. Dr. Padmaa M Paarakh, the Principal, addressed the students, emphasizing the importance of International Women's Day and their societal responsibilities. A photobooth competition was held, with active participation from students, and winners were announced. The dress code of pink or purple added to the event's charm. The program was attended by 83 students from B. Pharm and M. Pharm, along with staff. Mrs. Adithi, the organizer, concluded the event with a vote of thanks, expressing gratitude to Chairman Dr. S.N.V. L. Narasimha Raju, The Oxford Group of Institutions, and Dr. Padmaa M. Paarakh, Principal, for their encouragement and support.





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No.of participants- 87

Timings	Schedule of events	
12.00pm	Speaker delivering speech on women's day	
12.15pm	Photobooth competition	

WINNERS LIST:

FIRST PRIZE: Dhanshekar M K, Nisha S, Pratik Jain (7th Sem B.Pharm) SECOND PRIZE: Abhinaya, Lakshmi, Weizel (II Pharm D) THIRD PRIZE: Anitha M, Swathi S, Sasipriya P (II D Pharm)

Shreya, Fathima, Sannidhi (III Sem B.Pharm)



Judgement of the Photobooth competition





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Students participated in the Photobooth Competition



Women's day celebration with Faculties





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OUTCOME OF THE PROGRAM

The outcome of International Women's Day program was resoundingly positive, with the active participation of 87 participants as it succeeded in inspiring and encouraging women across community. The Photobooth competition, a highlight of the event, ignited enthusiasm among all our students and staff, fostering a sense of unity and celebration of women's achievements.





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LIST OF PARTICIPANTS

S.NO.	NAME OF THE PARTICIPANTS	SIGNATURE
1.	DR PADMAA M PAARAKH	P. Pagues
2.	MRS ADITI	Aditi.
3.	MRS SURINDER KAUR	April
4.	MRS NAGALAKSHMI	Napul
5.	A D NANDINI	Ad
6.	AMULYA R	Annulya
7.	APOORVA N	Anourva.
8.	ARCHANA S	panj
9.	CHETHAN M	alethan.
10.	DHARSHINI J	Dhael
11.	DIVYA C K	Dinya
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	HARSHITHA R	Alairlutha.
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	MADHURA R	Madhu '
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37.	ANITHA M	Anitha





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64.	PADMASHREE M	
65.	RANJITHA REDDY S	Banto
66.	SHASHIKALA D M	ster s
67.	SHERLIN HEPZIBAH S	guen
68.	SHUBHASHINI N	Shube
69.	TINA LALLY	THAT
70.	VINISHA R	(B)
71.	DARPANA R	DR
72.	MHONLUMI T OVUNG	at a
73.	VARSHA M	bariel so
74.	ABHIRAMI P PILLAI	ally
75.	AFRAH FATHIMA	Mah-
76.	AIJINGHUN UMSONG	ALCO,
77.	ARUSHI NAIR	Haush
78,	BHAVANA M REDDY	Batz
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82.	KEERTHI REDDY M	Kersthip M
83.	KIRUBA EVANJALIN M	
84.	RAKSHITHA K C	Last Shat Frey
85.	UTTARA S	Wea
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DATE: 29/04/2024

CIRCULAR

This is to inform all students, teaching and non-teaching staff of The Oxford College of Pharmacy that Guest talk on "Opportunities for Girl Graduates in Pharmaceutical Sales & Marketing" will be organized on 02/05/2024 for the academic year 2023-2024. We request for the active participation for the same.

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PREAMBLE

The Oxford College of Pharmacy, Bengaluru organized Guest talk on "Opportunities for Girl Graduates in Pharmaceutical Sales & Marketing" on 02/05/2024 for the academic year 2023-2024. Ms. Bindu N, Assistant Professor, Department of Pharmacy Practice, initiated the program. There were around 92 participants who took part in the programme.

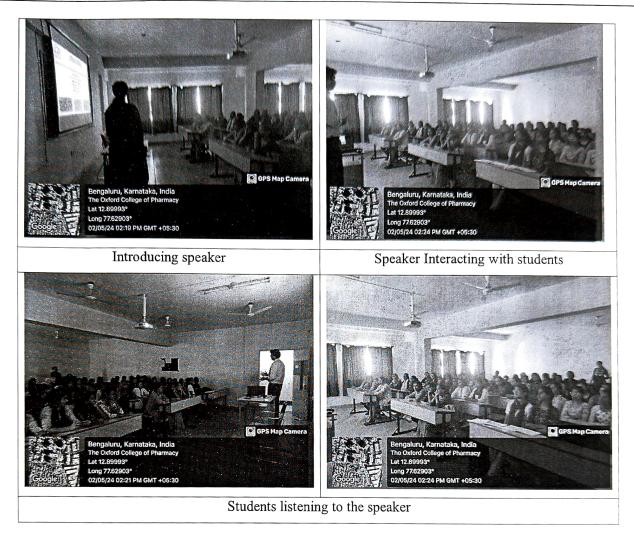
THE CONTENT OF THE SESSION:

The guest talk on "Opportunities for Girl Graduates in Pharmaceutical Sales & Marketing" was organized by The Oxford College of Pharmacy, Bengaluru on 2nd May 2024. This program was organized to create awareness on job opportunity and scope in pharmaceutical sales and marketing sector. Ms. Bindu N, Assistant Professor, Department of Pharmacy Practice introduced the speaker of the day Mr. Uday Tasgonker, Regional sales manager, Veritaz Health Care Ltd, Chennai. Mr Uday Tasgonker emphasized on the numerous offers promising and diverse opportunities available for girl graduates in the field of marketing. He also stressed that with the right education, skills, and determination, along with proper guidance they can build successful and impactful careers in this dynamic industry. He also briefed regarding how working in pharmaceutical sales and marketing allows individuals to contribute to healthcare by promoting life-saving medications and treatments. The session continued with interactive session, where students asked questions related to challenges faced taking this profession and methods to overcome the same. They also enquired regarding any professional skill development program can be taken for a successful career in this field apart from graduation. The programme was concluded with the thank you note and appreciation to the speaker for spreading awareness related to such a diverse career path.





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OUTCOME OF THE PROGRAM

The program enhanced the awareness regarding the diverse career path pharmaceutical sales and marketing, emphasizing the industry's growth and the demand for skilled professionals along with other opportunities. The talk was able to achieve its aim to empower girl graduates spreading awareness and encouraging them to pursue careers in pharmaceutical sales and marketing with confidence. All the 92 participants were benefitted by receiving practical advice on how to navigate the job market, how to prepare for interviews, and succeed in their roles.

END OF REPORT

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GENDER AUDIT

The Oxford College of Pharmacy conducts Gender Audit to take it as feedback in making the college campus safe for women. The institute conducts awareness about their objectives throughout the year by conducting various awareness programs and motivational lectures. As per the guidelines of Supreme Court, UGC, Sexual Harassment of Women at Workplace (Prevention, Prohibition & Redressal) Act, 2013, an Internal Complaints Committee has been established by the College with an objective to Prevent Sexual Harassment of any gender at the college. Awareness programs are organized at the beginning of every academic year to sensitize the students about their rights and laws and to fight against any kind of sexual harassment.

Objectives of Gender Audit

- 1. To identify the areas where the gender inequality exists.
- 2. To identify the stereotypes associated with gender equality.
- 3. To maintain good gender balance across various disciplines.
- 4. To suggest guidelines to bridge the gender gap.
- 5. To implement elimination of sexual harassment effectively.

The Gender Audit was conducted in the following process

- i. Orientation of the students and faculty members through special talk by Head of the Institute and senior faculty.
- ii. Circulating the Questionnaire among the students to understand their awareness about women safety in the College premises

The Oxford College of Pharmacy emphasize on "Every Voice, Every Gender, Equal Rights", for a better and safer social community.





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GENDER EQUITY

Gender equity is the process of being fair to women and men, a process of achieving gender equality. Gender equality is a fundamental human right and required to explore full human potential for sustainable development. Irrespective of the Gender, every human being has to be given an equal opportunity to access resources, economic participation and decision-making. A systematic procedure of creating awareness, perception of it in correct manner, and understanding the importance of gender sensitive issues can be best inculcated positively in the college. Such programs assures that every single human being irrespective of its gender is made conscious that their rights, responsibilities and opportunities will not depend on their gender. The faculty sensitizes the students about code of conduct and also to respect every one equally irrespective of their gender. The college has provided a very conducive environment to both men and women, to work with human dignity and personal security. Gender equity ensures fairness of treatment to all genders according to their respective needs. The Oxford College of Pharmacy strongly believe in providing fair and justifiable treatment to all without regard to their gender. The college also aims at providing campus free of discrimination, harassment or sexual assault at all levels by ensuring the smooth redressal procedure. The college has organized sensitization programs on rights, entitlements and responsibilities enshrined in the women employees and the same to the girl students of the college. The college has aesthetically designed common rooms with all necessary facilities like dustbins & mirror etc., for girl students as well as for boys separately.



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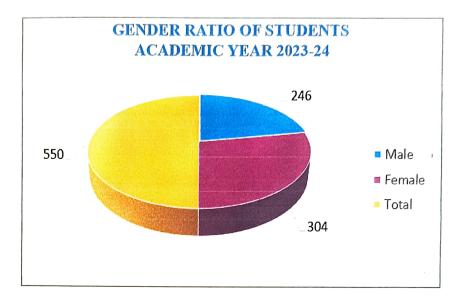


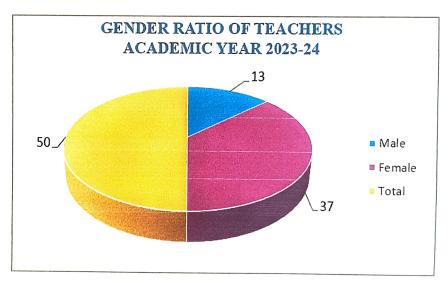
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GENDER AUDIT





Particulars	Male	Female	Total
Students	246	304	550
Teachers	13	37	50
Total	259	341	600

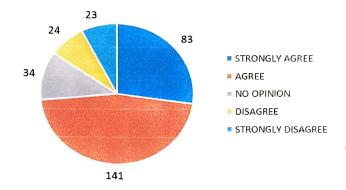




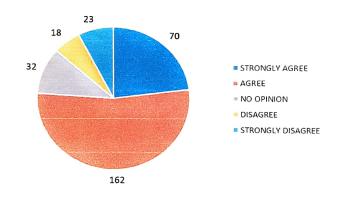
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GENDER AUDIT SURVEY AND ANALYSIS

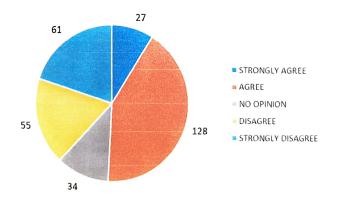
1. The college conducts gender sensitization program as a part of its curriculum.



2. The college conducts gender awareness programs on sensitizing the women about rights, entitlements and responsibilities enshrined in the Sexual Harassment of Women.



3. Adequate number of toilets is available in the campus for girls.

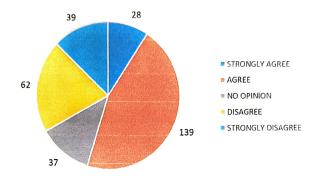




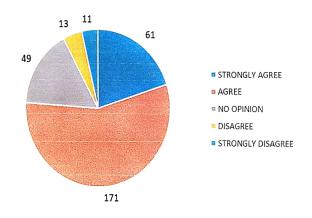


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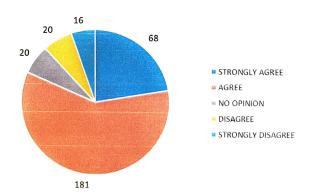
 Adequate facilities are available inside the toilet keeping in mind the need of the girl students. Adequate disposal bins are available in the toilet.



5. Adequate lighting is available inside the campus during night, including but not limited to, adequate light in corridor, class rooms, common areas, toilets etc.



6. Adequate security arrangements have been made in the campus and common areas during day and night.

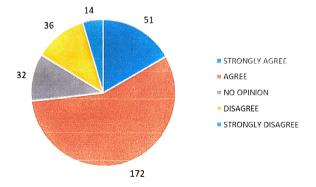




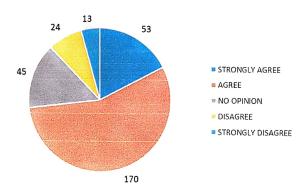


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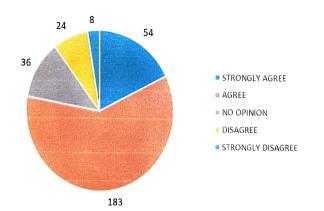
- 7. The Women Empowerment Cell (WEC) and Internal Complaint committee(ICC) conducts gender
 - sensitization events.



8. Are you aware about Internal Complaint committee (ICC) that deals with sexual Harassment issues in your college?



9. Can you reach out to the Internal Complaint committee (ICC) for sexual harassment related grievances.

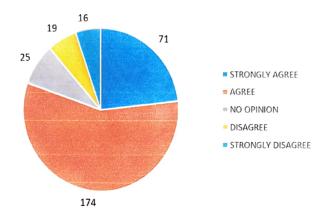




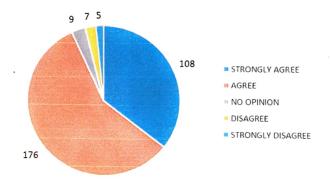


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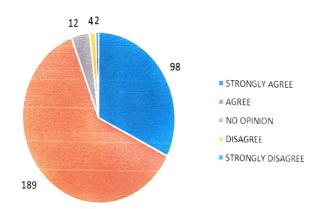
10. Are you aware of Grievance and Readressal Cell in your College?



11. The classroom offers equal opportunities to all genders.



12. The college offers equal opportunities to all genders on sports.





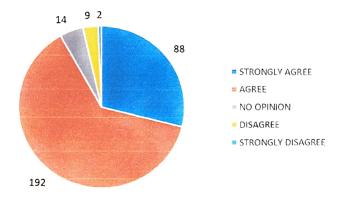


Children's Education Society (Regd.)

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13. There is equal opportunity to all genders for free and fair expression of ideas.







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SUGGESTIONS

► Define and deepen the understanding of gender equality, women Empowerment and Human dignity.

► Organize awareness program on Legal rights of women, women health and hygiene, women work life balance.

► Ensure the safety of students by installing CCTV in institute at different places like entrance, lobbies, class rooms etc. Professional ladies security guards can be placed at college gates. Classes for self-defense of women can be regularly organized to empower women staff and girl students.

➤ The toilets should be made women friendly keeping in view the increase in number of female learners who have joined the college, as well as differently abled friendly. There should be a sanitary napkin vending machine in the campus mandatorily as well as, if possible, inside the staff toilets. Awareness about the same should be spread as well.

Nuivestave_ IQAC COORDINATOR

(Pad us **IQAC CHAIRPERSON & PRINCIPAL** PRINCIPAL

The Oxford College Of Pharmasy No 69.1st Cross, Eagur Post, Hongasándra Bangalore - 560 008



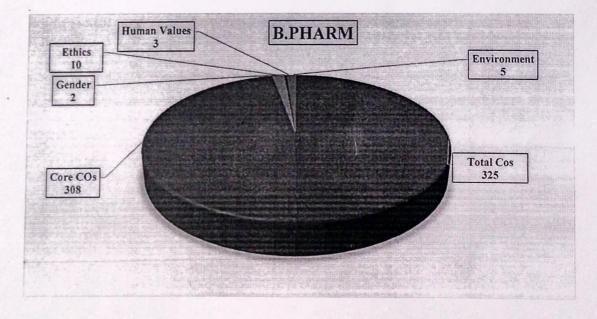


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Departmental wise - Course Outcome's (COs) with Cross cutting Issues -

Academic year-2023-2024

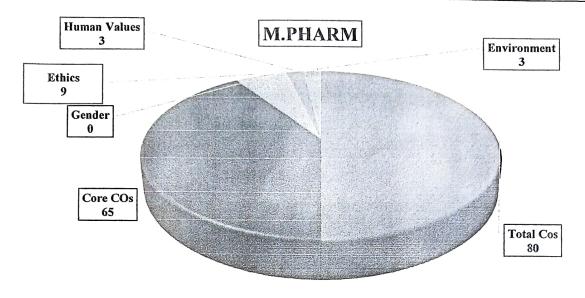
Department	Total Cos	Core COs	Ethics	Gender	Human Values	Environment
B. Pharm	325	308	. 10	2	3	5
M. Pharm	80	65	9	0	3	3
Pharm D	124	97	7	0	1	0
TOTAL	529	470	26	2	7	8

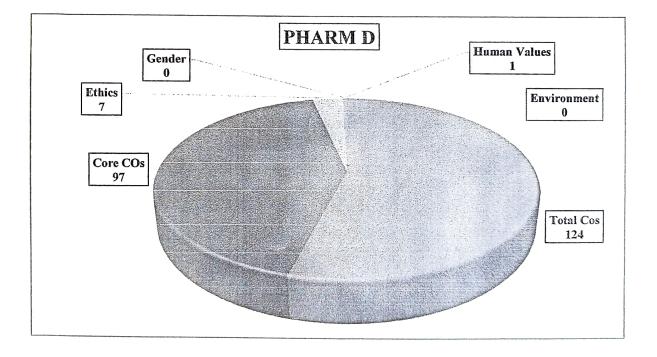






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The Oxford College of Pharmacy has a well-defined Course Outcomes for all course as per RGUHS Guideline. For the Academic Year 2023-2024 there is no change in the COs. Those Course Outcomes (COs) are what the student should be able to do at the end of a course. The most important aspect of those COs are that it should be observable and measurable.

Each COs are assessed by using Direct assessment tools that reflect the knowledge level and skills of the students based on their performance in Continuous Assessment Test, Assignments, Tutorials, Concept Test etc. This Direct assessment is taken to attain individual Course Outcomes (COs) as per the university guidelines. As University has not given any POs so partial attainment only done and no weightage attainment is calculated.

When assessing student learning, two of the most common approaches followed by college are formative and summative assessments. The uses of a formative assessment is to gauge student understanding and identify knowledge gaps that may need extra work. Summative assessments are conducted at the end of a defined learning period and often represent the final grade for the course.





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Summary on Crosscutting Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

The Oxford College of Pharmacy in Bangalore has incorporated a variety of courses into its curriculum, some of which aim to improve professional competencies and others of which aim to instil general competencies such as social ethical values, human values, environmental sensitivity, and so on, resulting in students' holistic development.

Ethics in education supports in educational system management and ensures that these behaviours contribute favourably to human well-being. The college has worked hard to provide value-based education to students in order to help them understand moral values and professional ethics, with the goal of strengthening values for a better citizen. Students in all pharmacy programmes are taught a variety of courses in order to instil and practise human values and professional ethics. Human values and professional ethics are addressed through the course "Pharmaceutical jurisprudence" offered in the V semester of UG programme.

Gender equality safeguards women and girls from harm. It is required for economic growth. The institution, imparting quality education to shape global leaders has firm belief in gender equity which is indispensable to ensure sustainable development of a country. To provide counselling to students, promote gender equity among students, and handle issues impacting the safety and security of female students, employees, and professors, the college has a Women's Grievance Cell.

To enhance awareness of environmental and sustainability issues, a variety of activities were organised for students from all programmes, including seminars, workshops, guest lectures, industry visits, and field excursions. The issues of Environment and Sustainability are addressed through the course "Environmental Studies" offered to Pharmacy students in the V semester as well.

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SYLLABUS CROSS CUTTING

B. PHARMACY

Semester I

Course code	Name of the course	No. of hours	Tuto rial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	1	4
BP102T	Pharmaceutical Analysis I – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry– Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology– Practical	4	-	2
BP108P	Pharmaceutical Analysis I – Practical	4	-	2
BP109P	Pharmaceutics I-Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry– Practical	4	-	2
BP111P	Communication skills – Practical*	2	-	1
BP112RBP	Remedial Biology – Practical*	2	-	1
	Total	32/34\$/36#	4	27/29 ^{\$} /30 [#]

Semester II

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I - Theory	3	1	4
BP203T	Biochemistry-Theory	3	1	4
BP204T	Pathophysiology-Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II – Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I- Practical	4	-	2
BP209P	Biochemistry – Practical	4	-	2
BP210P	Computer Applications in Pharmacy – Practical*	2	-	1
¢	Total	32	4	29
	Semester III		1	P. Pad





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Course code	Name of the course	No. of hours	Tutorial	Credit points
· BP301T	Pharmaceutical Organic Chemistry II - Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory	3	1	4
BP303T	Pharmaceutical Microbiology-Theory	3	1	.4
BP304T	Pharmaceutical Engineering – Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II - Practical	4	-	2
BP306P	Physical Pharmaceutics I – Practical	4	-	2
BP307P	Pharmaceutical Microbiology-Practical	4	-	2
BP 308P	Pharmaceutical Engineering – Practical	4	-	2
	Total	28	4	24

Semester IV

Course	Name of the course	No. of	Tutorial	Credit
code		hours		points
BP401T	Pharmaceutical Organic Chemistry III- Theory	3	. 1	4
BP402T	Medicinal Chemistry I – Theory	3	1	4
BP403T	Physical Pharmaceutics II – Theory	3	1	4
BP404T	Pharmacology I – Theory	3	1	4
BP405T	Pharmacognosy and Phytochemistry I- Theory	3	1	4
BP406P	Medicinal Chemistry I – Practical	4	-	2
BP407P	Physical Pharmaceutics II – Practical	4		2
BP408P	Pharmacology I – Practical	4	-	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4	-	2
	Total	31	5	28

Semester V

Course code	Name of the course	No, of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II – Theory	3	1	4
BP502T	Industrial PharmacyI- Theory	3	1	4



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BP503T	Pharmacology II – Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II- Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	4
BP506P	Industrial PharmacyI – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II –	4	-	. 2
	Practical	-		
	Total		5	26

semester VI

Course	Name of the course	No. of	Tutorial	Credit
code		hours		points
BP601T	Medicinal Chemistry III – Theory	3	1	4
BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics -	3	1	4
DI 0041	Theory	5	Ĩ	
BP605T	Pharmaceutical Biotechnology – Theory	3	1	4
BP606T	Quality Assurance – Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
	Total	30	6	30

Semester VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial PharmacyII – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis – Practical	4	-	2



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BP706PS	Practice School*	12	-	6
	Total	28	5	24

Semester VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management			
BP804ET	Pharmaceutical Regulatory Science		= 1 + 1 = 2	4 + 4 =
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of			
BP800E1	Herbals	3+3=		
BP807ET	Computer Aided Drug Design	6		8
BP808ET	Cell and Molecular Biology]		
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology	1		
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
	Total	24	4	22

PHARM D

FIRST YEAR

S. No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Human Anatomy and Physiology	3	3	l
1.2	Pharmaceutics	2	3	l
1.3	Medicinal Biochemistry	3	3	l
1.4	Pharmaceutical Organic Chemistry	3	3	l
1.5	Pharmaceutical Inorganic Chemistry	2	3	1



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1.6	Remedial Mathematics/ Biology**	3	3*	1
	Total Hours	16	18	6 = (40)

SECOND YEAR

S. No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
2.1	Pathophysiology	3	-	1
2.2	Pharmaceutical Microbiology	3	3	1
2.3	Pharmacognosy & Phytopharmaceuticals	3	3	1
2.4	Pharmacology-I	3	3	1
2.5 ·	Community Pharmacy	2	-	1
2.6	Pharmacotherapeutics-I	3	3	1
	Total Hours	17	12	6 = (32)

THIRD YEAR

S. No	Name of Subject	No. of	No. of	No. of
	-	hours of	hours of	hours of
		Theory	Practical	Tutorial

(1)	(2)	(3)	(4)	(5)
3.1	Pharmacology-II	3	3	1
3.2	Pharmaceutical Analysis	3	3	1
3.3	Pharmacotherapeutics-II	3	3	1
3.4	Pharmaceutical Jurisprudence	2	-	-
3.5	Medicinal Chemistry	3	3	1
3.6	Pharmaceutical Formulations	2	3	1
	Total Hours	16	15	6 = (36)

FOURTH YEAR

S. No	Name of Subject	No. of	No. of	No. of
		hours of	hours of	hours of
		Theory	Practical	Tutorial



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(1)	(2)	(3)	(4)	(5)
4.1	Pharmacotherapeutics-III	3	3	1
4.2	Hospital Pharmacy	2	3	1
4.3	Clinical Pharmacy	3	3	1
4.4	Biostatistics & Research Methodology	2	-	1.
4.5	Biopharmaceutics & Pharmacokinetics	3	3	1
4.6	Clinical Toxicology	2	-	1
	Total Hours	15	12	6 = (33)

FIFTH YEAR

S. No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1) ·	(2)	(3)	(4)	(5)
5.1	Clinical Research	3	-	1
5.2	Pharmacoepidemiology and Pharmacoeconomics	3	-	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1
5.4	Clerkship *	-	-	1

FIRST PB

S. No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Pharmacotherapeutics- I & II	3	3	1
1.2	Hospital & Community Pharmacy	3	3	1
1.3	Clinical Pharmacy	3	3	1
1.4	Biostatistics & Research Methodology	2	-	1
1.5	Clinical Toxicology	2	-	1
1.6	Pharmacotherapeutics-III	3	3	1
1.7	Biopharmaceutics & Pharmacokinetics	3	3	1
	Total Hours	19	15	7 = (41)

SECOND PB



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S. No	Name of Subject	No. of	No. of	No. of
		hours of Theory	hours of Practical	hours of Tutorial
(1)	(2)	(3)	(4)	(5)
2.1	Clinical Research	3	-	1
2.2	Pharmacoepidemiology and Pharmacoeconomics	3	-	1
2.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1
2.4	Clerkship *	-	-	1
2.5	Project Work (Six Months)	-	20	-
	Total Hours	8	20	4 = (32)

M.PHARM PHARMACEUTICS

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semester I				
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPH101T	Modified Release Drug Delivery System	4	4	4	100
MPH102T	Modern Pharmaceutics	4	4	4	100
MPH103T	Pharmaceutical Regulatory Affair	4	4	4	100
MPH104P	Pharmaceutics Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Semester I	I			
MPH201T	Molecular Pharmaceutics(Nano Tech and Targeted DDS)	4	4	4	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100
MPH203T	Computer Aided Drug Delivery System	4	4	4	100

LEGE OF PHARMACY

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MPH204T	Cosmetic and Cosmeceuticals	4	4	4	100
MPH205P	Pharmaceutics Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

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M.PHARM PHARMACOGNOSY

Course	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semester	[
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPG101T	Advanced Pharmacognosy-1	4	4	4	100
MPG102T	Phytochemistry	4	4	4	100
MPG103T	Industrial Herbal drug technology	4	4	4	100
MPG104P	Pharmacognosy Practical I	12	6	12	150
· _	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Semester I	I			
MPG201T	Medicinal Plant biotechnology	4	4	4	100
MPG102T	Advanced Pharmacognosy-II	4	4	4	100
MPG203T	Indian system of medicine	4	4	4	100
MPG204T	Herbal cosmetics	4	4	4	100
MPG205P	Pharmacognosy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

M.PHARM PHARMACOLOGY

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semester I				
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL101T	Advanced Pharmacology-I	4	4	4	100
MPL102T	Pharmacological and Toxicological Screening Methods- I	4	4	4	100
MPL103T	Cellular and Molecular Pharmacology	4	4	4	100
MPL104P	Pharmacology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Semester I	I			
MPL201T	Advanced Pharmacology II	4	4	4	100



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MPL102T	Pharmacological and Toxicological Screening Methods- II	4	4	4	100
MPL203T	Principles of Drug Discovery	4	4	4	100
MPL204T	Experimental Pharmacology practical- II	4	4	4	100
MPL205P	Pharmacology Practical II	12	. 6	12	150
_	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

M.PHARM III SEM (PHARMACEUTICS, PHARMACOGNOSY, PHARMACOLOGY)

Course	Course	Credit	Credit
Code		Hours	Points
MRM101T	Research Methodology and Biostatistics*	4	4
-	Journal club	1	1
-	Discussion / Presentation	2	2
	(Proposal Presentation)		
-	Research Work	28	14
	Total	35	21

M.PHARM IV SEM (PHARMACEUTICS, PHARMACOGNOSY, PHARMACOLOGY)

Course	Course	Credit	Credit
Code		Hours	Points
-	Journal Club	1	1
-	Research Work	31	16
-	Discussion/Final Presentation	3	3
	Total	35	20





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CLASS COURST SLNO CLASS COURST SLNO TSEN B.FH.ARM Human Anatomy and Physiology -1 1 Explain the gross morphology, structure and functions of ratious organs of the human body. Describe the various homeostatic mechanisms and their imblances. Intentify the various structure and functions of human body. 1 Describe the various structure and functions of stratma body. Partorn the various structure and functions of fundances. 1 Identify the various structure and functions of stratma body. Partorn the various structure and functions of stratma body. 1 Describe the various stratma budy. Partorn the various stratma of other ordenties of the human body. 1 Identify the various stratma stratma budy. Partorn the various stratma of stratma to stratma the partorial stratma in the various system. 1 Understand the principles of volumetric and electro chemical analysis. Pharmaceutical Analysis-I 1 Understand the principles of volumetric and electro chemical analysis. Pharmaceutics-I 1 Develop analytical strib 1 Pharmaceutics-I 1 Inderstand the principes of fufferent organs of farmacy. 1 Pharmaceutics-I 1 Develop analytical structorga
Juman Anatomy and Physiology -I 1 E 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Ataalysis-I 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
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-1
C.)
Understand the behavioural needs for a Pharmacist to function effectively in the areas of phan
2 Communicate effectively. (Verbal and Non-Verbal)
Effectively manage the team as a team player
4 Develop interview skills
5 Develop Leadership queities and essentials
Remitial Biology
2
3 Know understand the basic components of anatomy & physiology animal with special reference to human.
Kno
2 Done fire different types of problems by applying theory

11 SEAL D. F. CLANNI DUMAR ADATOMY AND PDVSIOLOGY - LI	Explain the gross morphology, structure and functions of various or gains of the Jurnan body.
	Describe the various homeostatic mechanisms and their intratances.
	Identify the various tissues and organs of different systems of human body.
	Perform the haematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc and also record blood pressue, heart rate, pulse and respiratory
~	volume.
	Appreciate coordinated working pattern of different organs of each system
	Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body
Pharmaceutical Organic Chemistry -I	Write the structure, name and the type of isomerism of the organic compound
~~~~V	Write the reaction, name the reaction and orientation of reactions
3	
	Identify/confirm the identification of organic compound.
Biochemistry	Undestand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.
P 2	Understand the metabolism of nutrient molecules in physiological and pathological conditions.
	Understand the genetic organization of manumatian genome and functions of DNA in the synthesis of RNAs and proteins.
Pathophysiology	Describe the etiology and pathogenesis of the selected disease states;
	Name the signs and symptoms of the diseases;
	Mention the complexitions of the diseases
Computer Applications in Pharmacy	Know the various types of application of computers in pharmacy
2	
	Know the various applications of databases in pharmacy
Environmental Sciences	
	its alled problems.
	Develop an attitute of concean for the anvironment
	tion and environment improvement

2 W 3 Act Physical Pharmaceutics -1 1 10r	Write the reaction again the reaction and orientation of reactions	
· ·		_
	Account for reactivity/stability of compounds.	
-	Prepare corganic compounds	
and the second s	Understand various physicocchemical properties of drug molecules in the desioning the Arccuse form	
2 Kn	Know the principles of chemical kinetics & to use them in assignment of the for formulation	
	Demonstrate use of physicochemical properties in evaluation of dosage forms.	
4	Appreciate physicochemical properties of drug molecules in formulation research and development	
	Inderstand methods of identification, cutivation and preservation of various microorganisms	
1	Inportance of sterilization in microbiology, and pharmaceutical industry	
1	Learn sterility testing of pharmaceutical products.	
	Microbiological standardization of Pharmaceuticals.	
Dhamacantical Francisco	Understand the cell culture technology and its applications in pharmaceutical industries.	
-	10 know various unit operations used in Pharmaceutical industries.	
	To understand the material handling techniques.	
i	10 Petform various processes involved in pharmaceutical manufacturing process.	
i	To carry out various test to prevent environmental pollution.	
1	10 appreciate and comprehend significance of plant lay out design for optimum use of resources.	
0	To appreciate the various preventive methods used for corrosion control in Pharmacentical industries	
A SEA DE LA	Understand the methods of preparation and properties of organic compounds	
	Explain the steree chemical aspects of organic compounds and steree chemical reactions	
Medicinal Chemister: T	know the medicinal uses and other applications of organic compounds	
-	Understand the chemistry of drogs with respect to their pharmacological activity	
5	Understand the drog metabolic pathways, adverse effect and therapeutic value of drogs	
1	Anow the Structural Activity Relationship (SAR) of different class of drugs	
Dhurden Dhurden T	Write the chemical synthesis of some drugs	
	Understand various physicocchemical properties of drug molecules in the designing the dosage form	
1	Abow the principles of chemical kinetics & to use them in assigning expiry date for Formulation	
1	Demonstrate use of physicochemical properties in evaluation of dosage forms.	
<b>T</b>	Appreciate physicochemical properties of drug molecules in formulation research and Development	
-	Udderstand the pliarmacological actions of different categories of dngs	-
;	Explain the mechanism of drug action at organ system/sub celular/macromolecular levels.	
İ	Apply the basic pharmacological knowledge in the prevention and treatment of various diseases.	
4 00	Observe the effect of drogs on animals by simulated experiments	
$\gamma'$	Appreciate correlation of pharmacology with other bio medical sciences	
1 I I I I I I I I I I I I I I I I I I I	to know the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents	
	io understand the preparation and development of herbal formulation.	
3 10	To understand the herbal drug interactions	
Pharmacentical Jurismudance	10 curryout isolation and identification of phytoconstituents	
	the Priardmaceturical legislations and their implications in the development and marketing. 2. Various finding pharmaceturical Acts and Laws	
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<ul> <li>Understand the conversion of anga with respect to their biological activity.</li> <li>Understand the conversion of drugs with respect to their biological activity.</li> <li>Know the metabolism, average effects and therapeutic value of drugs.</li> <li>Know the importance of SAR of drugs</li> <li>Understand the mechanism of drug action and its relevance in the treatment of different infectious diseases</li> <li>Comprehend the principles of loxicology and treatment of various poisonings and</li> </ul>	m - ci m - cim	* v - d m * - d m * .		1 dimensional and another another and another another and another another and another another another another and another anoth
Pharmacology-III	Berbal Drug Technology Biopharmaceutics and Pharmacokinetic	Pharmaceutical Biotechnology Pharmaceutical Quality Assurance	Industrial Pharmacy Industrial Pharmacy Pharmacy Practice	

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<ol> <li>Approvise statistical letringiues in solving the problemes</li> <li>Approvise statistical letringiues in solving the problemes</li> <li>Reverse the consciousness realization of current issuess related to health: and phomacconical problemes within the continty and working the problemes</li> <li>Final and a letrative ways of solving problemes explored to health: and phomacconical problemes within the continty and working the problemes explored to health: and phomacconical problemes within the continty and working problemes explored to health: and phomacconical problemes explored to health: and phomacconical problemes within the continty and working problemes explored to a the synthesized extending of matching and headponent.</li> <li>Incow about the process of dang discovery: and development.</li> <li>Kow the regulatory authorities and agreeds generating the manufacture and sale of pharmacconicals</li> <li>Kow the regulatory authorities and agreeds generating the manufacture and sale of pharmacconicals</li> <li>Bishory and development of functionacovigilance.</li> <li>Bishory and development of functionacovigilance</li> <li>Bound and the international scenario of functionacovigilance</li> <li>Bound and the international scenario of functionacovigilance</li> <li>Bound and the international scenario of functionacovigilance of the scenario of the scenario of functionacovigilance of the scenario of the scenario of functionacovigilance of the scenario of the scenario of the scenario of</li></ol>		2	Kinow the variants statistical techniques in solve statistical nonlinear or congerior congerior congerior	
1         Avoine light conscionances/relation of current issues related to health: and pharmacconical problems within the construction of current issues:           2         Prevalue all anterative ways of solving problems related to health: and pharmacconical problems within the construction of the same in the pharmacconical industry-           3         Frontate all anterative ways of solving problems related to health: and pharmacconical industry           4         In or provide an understanding of marking and the application of the same in the pharmacconical industry.           1         In or provide an understanding of marking and development.           2         Evoire the registionty authonics and agencies governing. the manufacture and sale of pharmacconicals           3         Evoire the registionty authonics and agencies governing. the manufacture and sale of pharmacconicals           4         Distrove allowing and distrumention           5         Motional and international scenario of pharmacovigitance           6         International scenario of pharmacovigitance           7         Adverse dug reactions und their assessment           8         Motional and international scenario of pharmacovigitance           9         Distrove allowerse and the contring. pharmacovigitance           9         Distrove allowerse and reactions and the adminimication in findam and international trackes           1         International stational of international scenanterical distroverse and and phar	n an an ann ann ann an an ann ann ann a	~	Aboteviate statistical techniques in solving the moheme	
<ul> <li>2 Prove chrich dwy of timbing based on current healthcare development.</li> <li>3 Froukate alterative ways of solving poletens etabled to health and phraneaentical issues.</li> <li>4 Derovide an understanding of martening concepts and beaptication of the same in the pharmacentical inductry to now the regulatory authorities and spericis governing (the manual version) and version of the same in the pharmacentical inductry althorities and spericis governing the manufacture and sale of pharmacovilations.</li> <li>2 Know the regulatory authorities and spericis governing (the manufacture and sale of pharmacovilations).</li> <li>3 Know the regulatory authorities and spericis governing the manufacture and sale of pharmacovilations.</li> <li>3 Know the regulatory authorities and spericis governing the manufacture and sale of pharmacovilations.</li> <li>3 Know the regulatory authorities and spericis governing the manufacture and sale of pharmacovilations.</li> <li>4 Deriventies, cooling and terminologies used in pharmacovilations.</li> <li>4 Deriventies, cooling and terminologies used in pharmacovilations.</li> <li>5 Deriventies, cooling and terminologies used in pharmacovilations.</li> <li>6 International strate avers durg reactions and their assessment.</li> <li>6 International strate avers durg reactions and the averative and durgs. The cycle of the averate safety data during tre- clinical, clinical and dots approval phases of drugs life cycle.</li> <li>9 Dates after for the averative safety data during tre- clinical, clinical and dots approval phases of drugs. The cycle of the averative safety data during tre- clinical, clinical and dots approval phases of drugs (the cycle of the averate safety terta during tre- clinical, clinical and dots approval phases of drugs (the cycle of the averate safety version).</li> <li>10 CDB guidense for cryatry or the during grade safety or the during grade safety or the during grade safety retable or phase of the averate safety data during grade safety retable safety and deve</li></ul>	Social and Preventive Pharmacy	-	Acoute held contrologneess readmining of current request related to the theorem of the second s	
<ul> <li>Evaluate alternative ways of solving problems replaced to behalts and pharmaceutical issues.</li> <li>Io provide an understanding of marking: concopts and the agnication of the same in the pharmaceutical inductry</li> <li>Know about the process of drog discovery and dovelopment.</li> <li>Know the regulatory authorities and segrencing the manufacture and sub of pharmaceuticals</li> <li>Know the regulatory authorities and segrencing the manufacture and sub of pharmaceuticals</li> <li>Know the regulatory authorities and segrencing the manufacture and sub of pharmaceuticals</li> <li>Know the regulatory authorities and segrencing the manufacture and sub of pharmaceuticals</li> <li>Ib huiton and and international accentio of pharmacovigilance</li> <li>Mutoral and international scenario of pharmacovigilance</li> <li>Mutora and international scenario of disease and duga</li> <li>Mutoral and international scenario of disease and duga</li> <li>Mutora and and international scenario of disease and duga</li> <li>Mutora and and international scenario of disease and duga</li> <li>Mutora and and international scenario of disease and duga</li> <li>Mutora and and international scenario of disease and duga</li> <li>Mutora and and international scenario of disease and duga</li> <li>Mutora and and duging gree-clinical and post approval phases of drugs (file cycle</li> <li>COMS requirements for ADN reporting.</li> <li>Mutora and and dug gradistry controls.</li> <li>Mutora</li></ul>		2		
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4         3         3         4         3         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		7	Anow the regulatory authorities and agencies governing the manufacture and sale of pharmacenticals	
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4         7         5         5         4         4         3         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Pharmacovigilance		The importance of drug safety monitoring	
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4         7         6         5         4           4         3         2         1         11         10         9         5         4           4         3         2         1         13         13         13         13         14         4		-	National and international scenario of originary compared with the second or originary compared with the second or originary compared with the second originary compa	
4         3         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		+	Dictionaries, confine and ferminologies, used in observationes	
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9 0 10 10 4 3 3 2 1 1 1 11 10 9 8 4 3 3 2 1 1 13 10 9 8	4	-	Adverse duog reaction reporting systems and communication in pharmacovigilance	
9 10 10 10 10 10 10 10 10 10 10 10 10 10		ŝ	Methools to generate safety data during pre-clinical, clinical and post approval phases of drugs "life cycle	
10         11           11         12           12         13           13         2           1         -           4         -           4         -		5	Drug safety evaluation in paediatrics, geniatrics, pregnancy and lactation	
11         12           13         13           1         1           1         1           1         2           2         3           3         3           4         4           4         4		9	Pharmacovigitance Program of India (PVPI)	
12 13 13 2 1 4 4 2 2 4		=	ICH guidefines for ICSR, PSUR, expedited reporting, pharmacorietizance planning	
13 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		2	. CIONS requirements for ADR reporting	
		<b>۳</b>	Writing case narratives of adverse events and their quality.	
2 4 3 3 2	Quality Control and Standardisation of	-	. WHO guidelines for quality control of herbal drugs	
w + - c w +		7	Quality assurance in herbal drug industry	
4 		٣	The regulatory approval process and their registration in Indian and international markets	
- ~ ~ 7		4	Appreciate EU and ICH guidefines for quality control of herbal drugs	
2     The role of drug design in drug discovery process       3     The concept of QSAR and docking       4     Various strategies to develop new doug like molecules.	Computer Aided Drug Design		Design and discovery of lead molecules	
3 The concept of QSAR and docking 4 Various strategies to develop new drog like molecules.		~	The role of drug design in drug discovery process	
4 Various strategies to develop new drug tike molecules,		~	The concept of QSAR and docking	
		4	Various strategies to develop new drog fike molecules.	

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Arranced     3     Describe the chemical foundations of cell biology.     1     1       A summarize the DNA properties of cell biology.     5     Describe protein structure and function.     1       B scripte protein structure and function.     1     Describe protein structure and function.     1       D secribe protein structure and function.     1     Describe protein structure and function.     1       D secribe protein structure and function.     1     Describe protein structure and function.     1       D secribe protein structure and function.     1     Describe protein structure and function.     1       D secribe protein structure and function.     1     Describe protein structure and function.     1       D secribe protein structure and function.     1     Describe the application structure and function.     1       D secribe protein and demonstrate lis impostibility animity.     1     Appreciate and demonstrate lis impostibility animity.       Arbaneed Instrumentation Techniques     1     Describe proteins of drugs.     1       Arbaneed Instrumentation Techniques     1     Indestand the arbaneod maximity used for analysis of drugs.       Arbaneed Instrumentation Techniques     1     Indestand the cumunity used and its profections in drug analysis       Arbaneed Instrumentation Techniques     1     Indestand the cumunity used and its profection is analysis of drugs.       1	the second	azise cellular functioning and composition.	2 Sumn	
4 V V C 8 - 7 C 7 A - 6 M		be the chemical foundations of cell biology.	3 Descr	
2 2 L 8 L C 6 4 L 2 w		tarize the DNA properties of cell biology.	4 Sumn	
w 10 - 4 3 10 - 8 - 1 6		be protein structure and function.	5 Descr	-
~ <del>8</del> - 7 <del>2</del> 4 - 7 <del>2</del> <del>2</del>		ibe ceitular membrane structure and function.	6 Descr	
∞ - c1 ∞ 4 - c1 ∞		nbe basic molecular genetic mechanisms.	7 Desc	
- ~ ~ + ~ ~ ~ ~		arize the Cell Cycle	8 Sum	
~ ~ 4 – 7 m		ciate the applications of various continuity used biboratory animals.	1 Appre	xperimental Phrmacology
~ 4 – 0 m		ciate and demonstrate the various screening methods used in preclinical research	2 Appre	
4 - 0 m		cale and demonstrate the importance of biostatistics and research metbiodology	3 Appre	
- <u>~</u> ~		n and execute a research hypothesis independently	4 Desig	
~ ~		stand the advanced instruments used and its applications in drug analysis	1 Under	Advanced Instrumentation Techniques
3         Understand the catibration of various analytical instruments           4         Know analysis of drogs using various analytical instruments		stand the chromatographic separation and analysis of drugs.	2 Under	
4 Know analysis of drugs using various analytical institumentis		stand the cabbration of various analytical instruments	3 Under	
	and the second	analysis of drugs using various analytical instruments	4 Know	

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Describe the structure (gross and	Describe the various homeostatic mechanisms and their imbelances of various systems     Identify the various itssues and overas of the futtman holv:		5 Appreciate coordinated working pattern of different organs of teach system; and	6 Appreciate the interfuncted mechanisms in the maintenance of normal functioning (nonnessitasis) of the human body	1 Know the formulation aspects of different dosage forms,	2 Do different pharmaceutical calculation involved in the formulation;	3 Formulate different types of dosege forms; and	4 Appreciate the importance of good formulation for effectiveness.	I Understand the catabytic activity of enzymes and importance of isvenzymes in dispossis of diseases;	2 Know the metabolic process of biomolecules in health and illness (metabolic disorders);	3 Understand the genetic organization of memoralian genome; protein synthesis; replication; nutation and repear mechanism;	4 Know the biochemical principles of organ functions tests of kitchesy, liver and endocrine giand; and	5 Do the qualitative analysis and determination of biomolecules in the booty fluids.	1 IUPAC/ Common system of nomenclature of simple organic compounds belonging to different classes of organic compounds,	2 Some important physical properties of organic compounds,	Free radical nucleophyllic [alk	3 the reaction, order of reactivity, stability of compounds;	4 Some named organic reactions with mechanisms; and	5 Methods of preparation, test for purity, principle unvolved in the assay, important medicinal uses of some important organic compounds.	y Understand the principles and procedures for analysis of drugs and also regarding the application of inorganic pharmaceuticals;	2 Know the analysis of the morganic pharmaceuticals their applications; and	3 Appreciate the importance of inorganic pharmaceuticals in preventing and curing the disease.	1 Know Trignometry, Analytical generatry, Matrices, Determinant, Integration, Differential equation, Laplace transform and their applications;	2 Solve the problems of different types by applying theory: and
Describe th	Describe th Identify (1	Perform th	Appreciate	Appreciate	Know the	· Do differ	Formulat	Apprecia	Understa	Know th	Understa	Know th	Do the q	IUPAC	Some im	Free radic	the reaction	Some nan	Methods	Understar	Know th	Appreci	Know Tr	Solve the
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l Pharm Human Anatomy and Physiology					Pharamceutics				Medicinal biochemistry					Pharmacutical Organic Chemistry						Pharmaceutical Inorganic Chemistry			Remedial Mathematics/Biology	

Appreciate the unportant apputations of the Describe the etiology and pathogenesis of the Name the signs and symptoms of the disease. Mention the complications of the disease. Know the mode of transmission of disease. Do estimation of RNA and DNA and there Do cultivation and identification of the mic Appreciate the behavior of motifity and by Appreciate the basic principles of cultivatio Understand the basic principles of cultivatio Appreciate the applications of principate disease and us Appreciate the applications of principate Understand the bumosological aspection Handle and carry out the animal asperiment Appreciate the importance of pharmacology Correlate and apply the knowledge therape Know the business and professional practic Do patient connegiting & provide health sc Respond to minor aliments and provide app Show empathy and sympatify to patients, The therapeutic appreciate the connegiting and scenarios functions of selected diseases st The therapeutic appreciation of selected diseases at The therapeutic approach to management of the theorem and stransting and the patients and provide appreciation and sympatify to antients and provide appreciation and sympatify to antients, the therapeutic appreciation and stransting and the stransting and the stransting and stransting and the stransting appreciation and apply the stranster and apply the theorem and stranster and apply the stranster and apply apply apply and the stranster and apply the stranster and apply the stranster and apply the stranster and apply appreciation apply app	attuetraatics un puarruacy. be selected disease states; ses; and	
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7 Summarise the therapeutic approach to management	ageneration fitness diseases, including references to the latest available evidence;	
8 Discuss the controversies in drug therapy;		
9 Discuss the preparation of individualised therapeutic plans based on diagnosis; and	c plans based on diagnosis; and	
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		The analysis of vatious drugs in single and combination dosage forms. Theoretical and practical skills of the instrument	The various approaches for development of novel drug delivery systems	The criteria for selection of drugs and polymers for the development of the formulation and eval To understand the Active Pharmaceutical Ingredients and Genetic drug Product development To learn Industrial Management and GMP Considerations.	To understand Uptimization I echniques & Pilot Plant Soale Up I echniques To study Stability Testing, steriilization process & packaging of dosage forms	The Concepts of innovator and genetic drugs, drug development process The Regulatoryguidation of the statistic drugs of the statistic statistic statistic statistic of the statistic Processation of Dosteless and their submission to regulatory agencies in different counties	Post approval regulatory requirements for actives and drug products	The various approaches for development of novel drug delivery systems.	The criteria for selection of drugs and polymers for the development of NTDS	The formulation and evaluation of novel drug delivery systems	The basic concepts in biopharmaceutics and pharmacokinetics.	The use raw data and derive the pharmacokin	absorption, distribution, metabolism and elimination.	i he critical evaluation of biopharmaceurito studies involving drug product equiva someos of the drugs using charmacokinetic and biopharmaceuric barameters.	The potential clinical pharmacokinetic problems and apply basic pharmacokinetic	The principles to solve them	History of Computers in Pharmaceutical Research and Development	Computational Modelling of Drug Disposition	Computers in Preclinical Development	Optimization Techniques in Pharmaceutical Formulation	Computers in Market Analysis	Computers in Clinical Development	Artificial Intelligence (AI) and Robotics	Computational fluid dynamics (CFD)	The key ingredients used in cosmetics and cosmeceuticals.	The key building blocks for various formulations.	The current technologies in the market	
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M. PHARM I SEM (PHARMACOLOGY) Modern Pharmaceutical Analytica	-	The analysis of various divigs in single and combination dosage forms
	2	Theoretical and practical skills of the instrument
Advanced Pharmacology -I	-	Discuss the pathophysiology and pharmacotherapy of certain diseases
	2 E	Explain the mechanism of drug actions at cellular and molecular level
	3	Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases
Pharmacological and Toxicologic	-	Appraise the regulations and ethical requirement for the usage of experimental animals.
		Describe the various animals used in the drug discovery process and good laboratory practices in maintenance and
	2	handling of experimental animals
	ლ ო	Describe the various new erscreeting methods involved in the drug discovery process,
	4	Appreciate and correlate the preclinical data to humans
Cellular and Molecular Biology	-	Explain the receptor signal transduction processes.
	2	Explain the molecular pathways affected by drugs.
	e	Appreciate the applicability of molecular pharmacology and biomarkers in drug discovery process.
	1	Demonstrate molecular biology techniques as applicable for pharmacology
Advanced Pharmacology-II	-	Explain the mechanism of drug actions at cellular and molecular level
And a second second second second second second second second second second second second second second second	2	Discuss the Pathophysiology and pharmacotherapy of certain diseases
	1	Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases
M. PHARM II SEM (PHARMACOLOGY) Toxicological Screening	1	Explain the various types of toxicity studies.
	2	Appreciate the importance of ethicial and regulatory requirements for towicity studies.
	1	Demonstrate the practical skills required to conduct the predinical toxicity studies.
Principles of Drug Discovery	-	
	2	Appreciate the importance of the role of genomics, proteomics and bioinformatics in drug discovery
	e	Explain various targets for drug discovery.
	4	Explain various lead seeking method and lead optimization
Clinical Research and Pharmacov	-	Explain the regulatory requirements for conducting clinical trial
	2	Demonstrate the types of clinical trial designs
	с С	Explain the responsibilities of key players involved in clinical trials
	4	Execute safety monitoring, reporting and close-out activities
	ഹ	Explain the principles of Pharmacovigilance
	9	Detect new adverse drug reactions and their assessment

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Modern Pharmaceutical Analytica 1	The analysis of various divigs in single, and combination dosage forms.
2	Theoretical and practical skills of the instrument
Advanced Pharmacognosy-1 1	Know the advances in production and cultivation of drugs
2	Know the various phyto-pharmaceuticals and their source, medical use and utilisation:
3	Know the various nutraceuticals! herbs and their health benefits
Phytochemistry 1	Know the various phytoconstituents and their properties & general process of natural product drug discovery
2	TO know the process of identification, purification and isolation of phytoconstituents
Industrial Pharmacognostical tec 1	Know the requirements for the setting up of herballnatural drug industry
2	To know and understand the guidelines for quality or herbal medicines
(C)	To know the patenting IIPR of herbals and trade of raw and finished materials
Medicianl plant biotechnology 1	Know the process like genetic engineering in medicinal plants for higher yield of Phytopharmaceuticals
2	Use the biotechnological techniques for obtaining and improving the quality of natural products/medicinal plants
M. PHARM I SEM (PHARMACOGNOSY) Advanced Pharmacognosy -II 1	Know the validation of herbal temedies
2	Know the methods of detection of adulteration and evaluation techniques for the herbal drugs
e	To know the methods of screening of herbals for various biological properties
Indian syatems of Medicine	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
2	medicine and formulation
Herbal Medicines	Understand the basic principles of various herballnatural cosmetic preparations
2	Current Good Manufacturing Practices of heiball natural cosmetics as pet the regulatory authorities
SEMESTER-III AND IV RESEARCH WORK	The research methodology.
M. Pharm III SEM and IV SEM 2	The biostatistical methods.
3	To write the review and research articles
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