



Children's Education Society (Regd.)

The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;

Approved by Pharmacy Council of India, New Delhi)

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

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P. Padua
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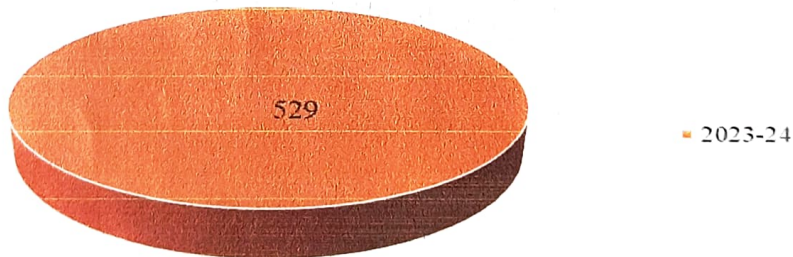
GENDER EQUITY AND SENSITIZATION IN CURRICULAR AND CO-CURRICULAR ACTIVITIES

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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GENDER SENSITIZATION ACTIVITIES

SL NO	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

Sl. 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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The Oxford College of Pharmacy
New Delhi
2023-24



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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:

Cc

1. Office

2. All department

P. Padua

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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

25TH JANUARY 2024, AT 10:00 AM.



CHIEF PATRON

Dr. S.N.V.L. NARASIMHA RAJU

Chairman

The Oxford Educational Institutions

CONVENER

Dr. PADMAA M PAARAKH

Principal,

The Oxford College of Pharmacy

NSS CO-ORDINATOR

Mrs. NAGALAKSHMI R

Assistant Professor

The Oxford College of Pharmacy

BROCHURE



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Few moments captured on National Girl Child Day 2024



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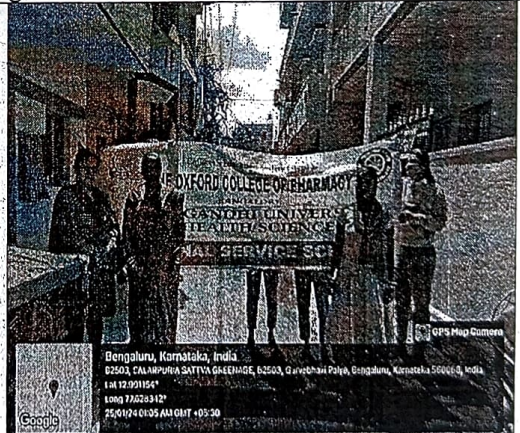


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Participants listening to the Session



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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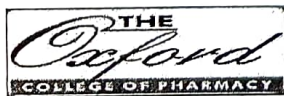
PREAMBLE

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, Assistant 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 25th Jan 2024

Time Schedule	Programme
10 AM	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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Cc

1. Office

2. All Departments



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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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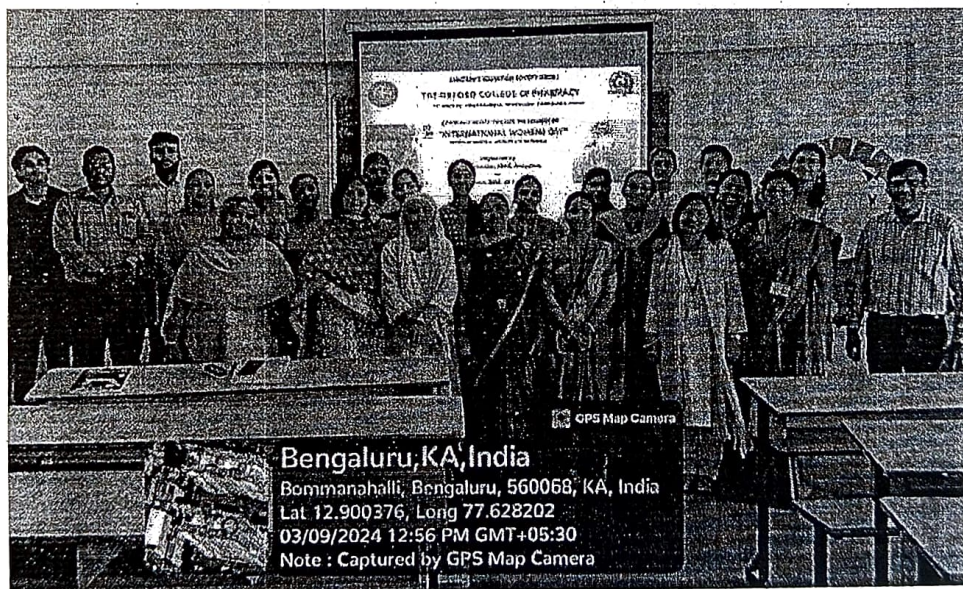
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Students participated in the Photobooth Competition



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. Padma
2.	MRS ADITI	Aditi.
3.	MRS SURINDER KAUR	S. Kaur
4.	MRS NAGALAKSHMI	N. Lakshmi
5.	A D NANDINI	A. D. Nandini
6.	AMULYA R	Amulya
7.	APOORVA N	Apoorva
8.	ARCHANA S	A. S.
9.	CHETHAN M	Chethan
10.	DHARSHINI J	D. Harshini
11.	DIVYA C K	Divya
12.	GAYATHRI N BIRADAR	Gayathri
13.	HARSHITHA P	H. P.
14.	HARSHITHA R	Harshitha
15.	IQRA	Iqra
16.	JEEVITHA S	Jeevitha
17.	K LAKSHMI	Lakshmi
18.	KUMARI MUSKAN	Muskan
19.	MADHURA R	Madhu
20.	MANASA S	Manasa
21.	MONISHA M	Monisha
22.	NOOR AYESHA L	Noor Ayesha
23.	RESHMA J	Reshma
24.	ROHAN B	Rohan
25.	ROOPA SHREE N	Roopa S
26.	S G SHREYA SHREE	S. G. Shreya
27.	SANNIDHI J KULKARNI	S. J. Kulkarni
28.	SHABARI B E	Shabari
29.	SHAIK BRIZEES FATHIMA	Shaiq
30.	SHOBHA	Shobha
31.	SNEHA BISWAS	Sneha
32.	SONIYA PATEL	Soniya
33.	SOWJANYA M	Sowjanya
34.	VEENA S	Veena
35.	VINUTHA K	Vinutha
36.	CHANDANA SIRIPUREDDY	Chandana Siripureddy
37.	ANITHA M	Anitha



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38.	ANUSHREE M	
39.	AYESHA SIDDIQUA	
40.	BIBI ASIYA	
41.	CHANDANA RAJ N	
42.	HEMASHREE Y	
43.	JASIRA T S	
44.	KEERTHI GOWDA M	
45.	K M VARSHA PATEL	
46.	LAKSHMI D	
47.	LAVANYA D	
48.	MUNAVARA PARVEEN A	
49.	NOOR AYESHA N	
50.	SASIPRIYA P	
51.	SHER BANU	
52.	SNEHA M	
53.	SRI SANJANA S	
54.	SRIVIDHYA M	
55.	SWATHI S	
56.	SUSHMITHA S	
57.	RENUKHA	
58.	ZOMBARKAR MUSKAN	
59.	ABIGAIL N MOZHUI	
60.	DEEPTI CHOUDHARY	
61.	DIMPLE G	
62.	HEMA N S	
63.	KEERTHANA C	
64.	PADMASHREE M	
65.	RANJITHA REDDY S	
66.	SHASHIKALA D M	
67.	SHERLIN HEPZIBAH S	
68.	SHUBHASHINI N	
69.	TINA LALLY	
70.	VINISHA R	
71.	DARPANA R	
72.	MHONLUMI T OVUNG	
73.	VARSHA M	
74.	ABHIRAMI P PILLAI	
75.	AFRAH FATHIMA	
76.	AIJINGHUN UMSONG	
77.	ARUSHI NAIR	
78.	BHAVANA M REDDY	
79.	HARSHITHA G S	
80.	HASHUBA N	
81.	HEENA K	



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82.	KEERTHI REDDY M	<i>Keerthi M</i>
83.	KIRUBA EVANJALIN M	<i>Kiruba</i>
84.	RAKSHITHA K C	<i>Rakshitha K C</i>
85.	UTTARA S	<i>Uttara S</i>
86.	VEDHA SHREE K S	<i>Vedha</i>
87.	VENCY V	<i>Vency V</i>

END OF REPORT

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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.

P. Padma

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THE OXFORD COLLEGE OF PHARMACY
6/9, I CROSS, BEGUR ROAD, HONGASANDRA, BENGALURU-560068

OPPORTUNITIES FOR GIRL GRADUATES IN PHARMACEUTICAL SALES AND MARKETING

RESOURCE PERSON: Mr. Uday Tasgonker

Regional sales manager

Veritaz Health Care Ltd, Chennai

DATE: 2nd MAY 2024

TIME : 2:00PM-3:00PM

VENUE : 501

CHIEF PATRON

Dr. S N V L Narasimha Raju,
Chairman,
The Oxford Educational
Institutions

CONVENER

Dr. Padmaa M. Paarakh,
Principal,
The Oxford College of
Pharmacy

ORGANIZING SECRETARY

Dr. Bindu B N,
Assistant Professor,
Department of Pharmacy
Practice,
The Oxford college of Pharmacy



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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:

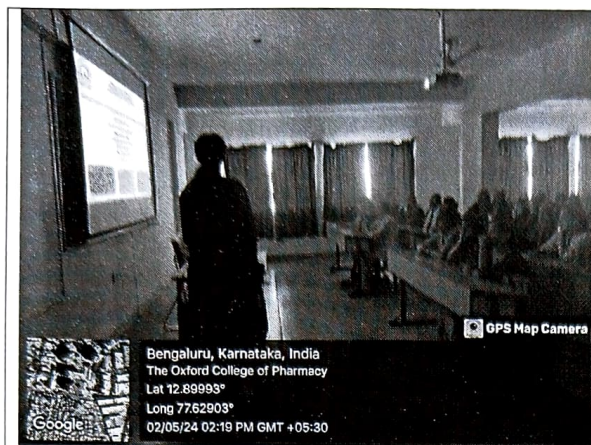
The guest talk on “Opportunities for Girl Graduates in Pharmaceutical Sales & Marketing” was organized by The Oxford College of Pharmacy, Bengaluru on 2nd May 2024. This program was organized to create awareness on job opportunity and scope in pharmaceutical sales and marketing sector. Ms. Bindu N, Assistant 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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Introducing speaker



Speaker Interacting with students



Students listening to the speaker



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

P. Padma
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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

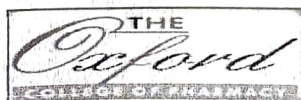
- i. Orientation of the students and faculty members through special talk by Head of the Institute and senior faculty.
- ii. Circulating the Questionnaire among the students to understand their awareness about women safety in the College premises

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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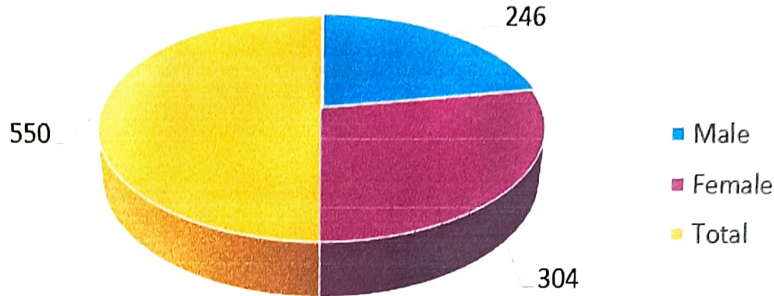
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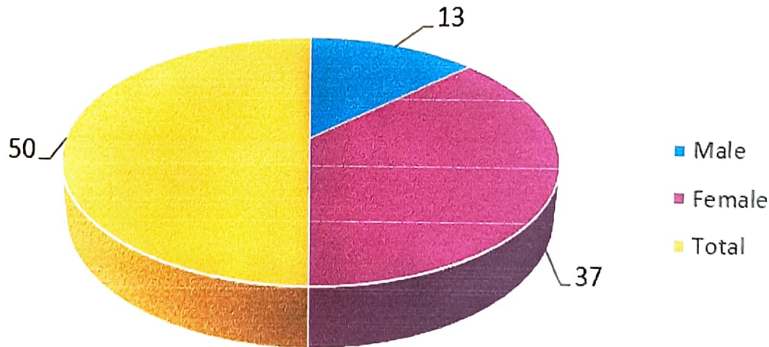
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GENDER AUDIT

GENDER RATIO OF STUDENTS ACADEMIC YEAR 2023-24



GENDER RATIO OF TEACHERS ACADEMIC YEAR 2023-24

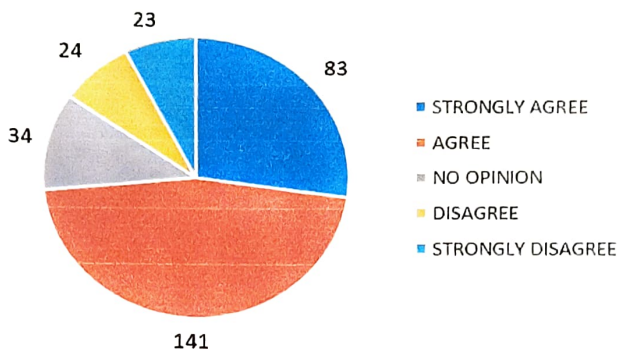


Particulars	Male	Female	Total
Students	246	304	550
Teachers	13	37	50
Total	259	341	600

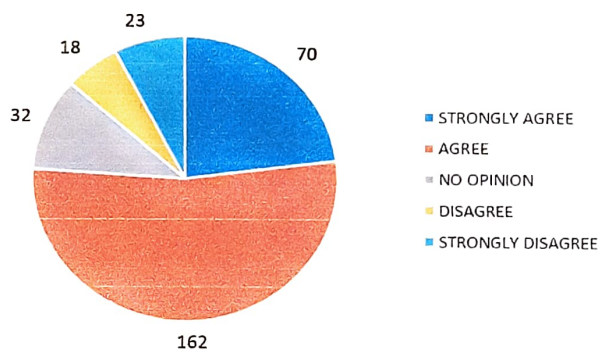


GENDER AUDIT SURVEY AND ANALYSIS

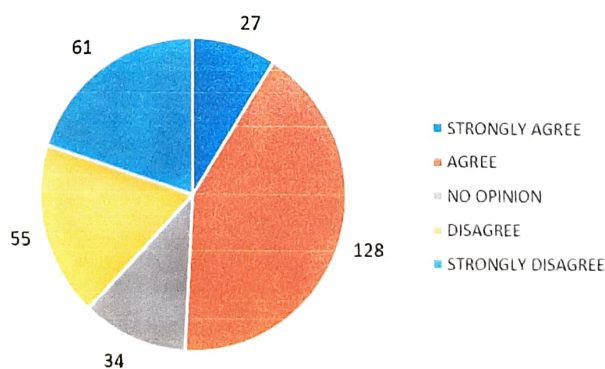
1. The college conducts gender sensitization program as a part of its curriculum.



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.



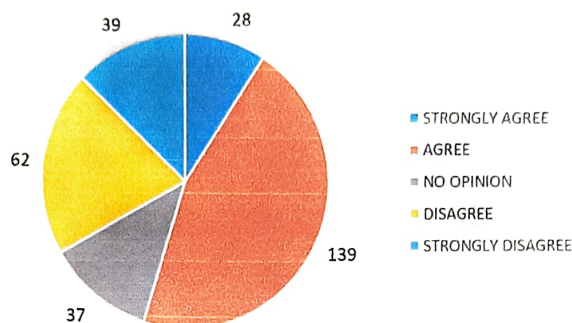


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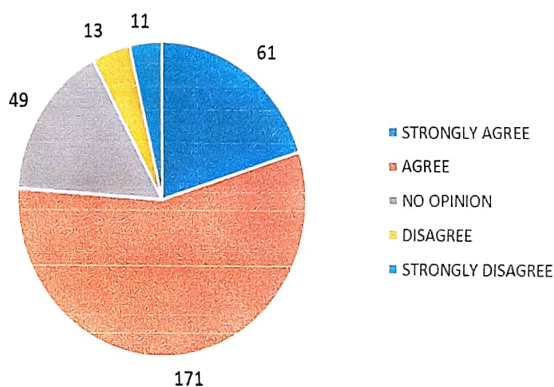
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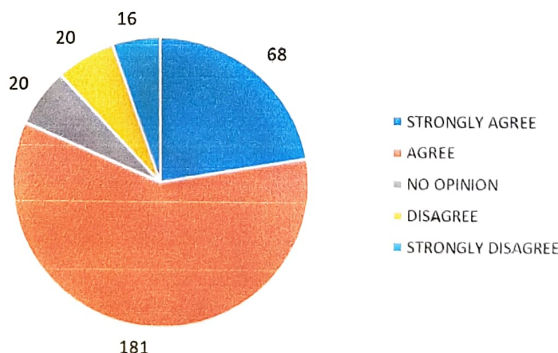
4. Adequate facilities are available inside the toilet keeping in mind the need of the girl students.
Adequate disposal bins are available in the toilet.



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.

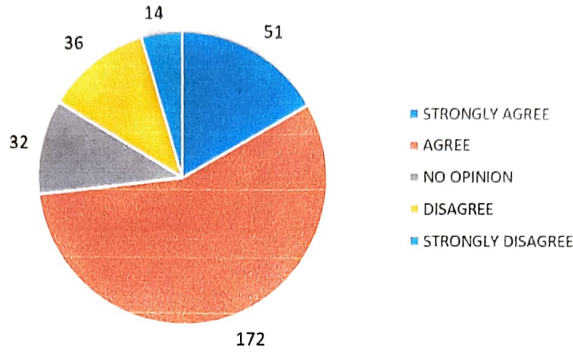


6. Adequate security arrangements have been made in the campus and common areas during day and night.

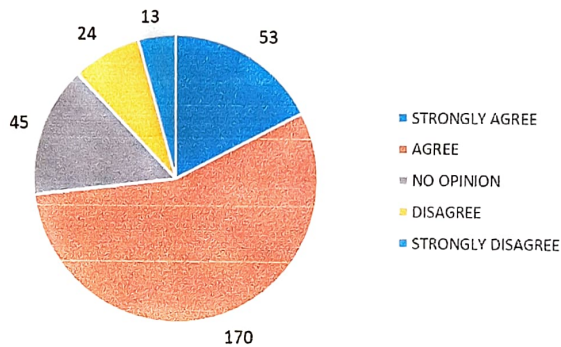




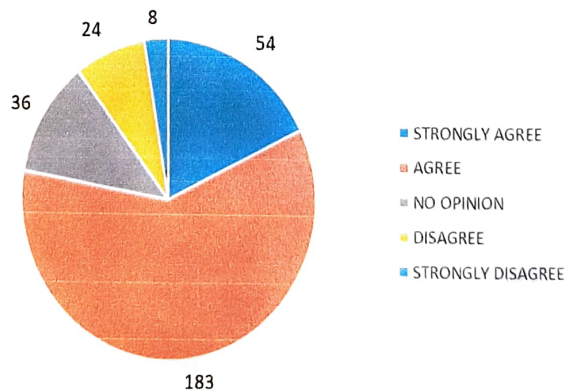
7. The Women Empowerment Cell (WEC) and Internal Complaint committee (ICC) conducts gender sensitization events.



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



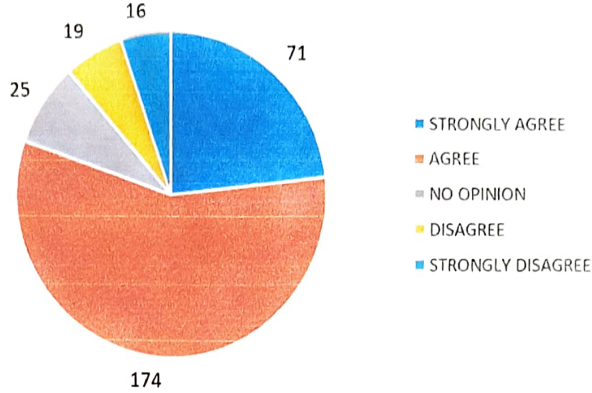
9. Can you reach out to the Internal Complaint committee (ICC) for sexual harassment related grievances.



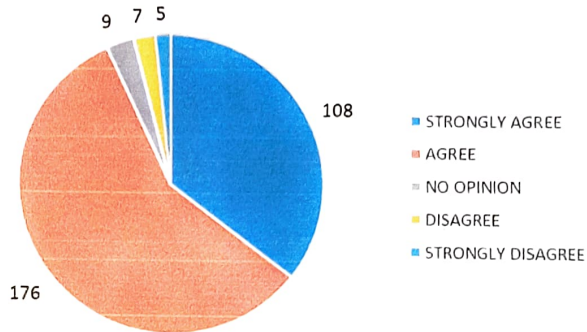


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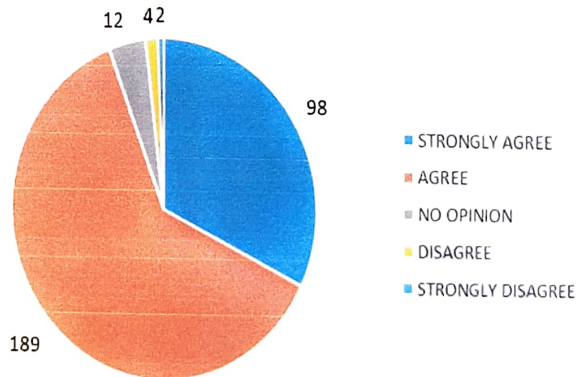
10. Are you aware of Grievance and Redressal Cell in your College?



11. The classroom offers equal opportunities to all genders.



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



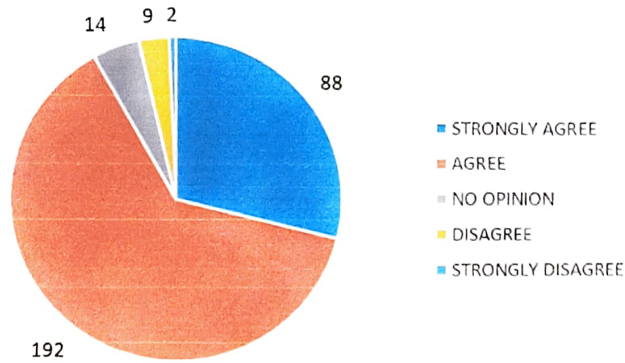


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13. There is equal opportunity to all genders for free and fair expression of ideas.





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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.

N. Sivastava
IQAC COORDINATOR

P. Padma
IQAC CHAIRPERSON & PRINCIPAL

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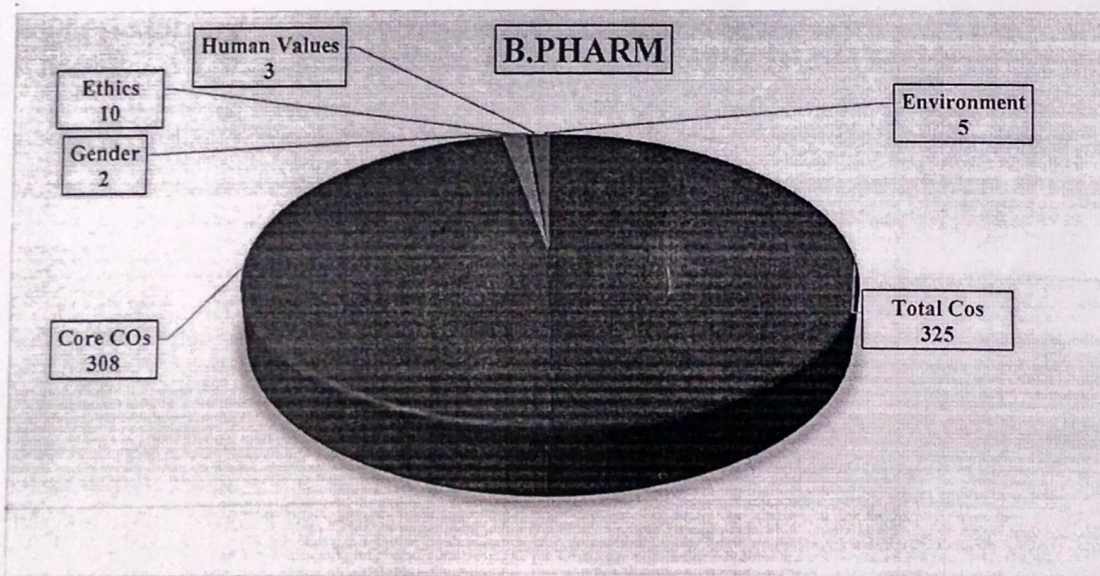
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Departmental wise - Course Outcome's (COs) with Cross cutting Issues – Academic year-2023-2024

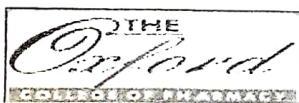
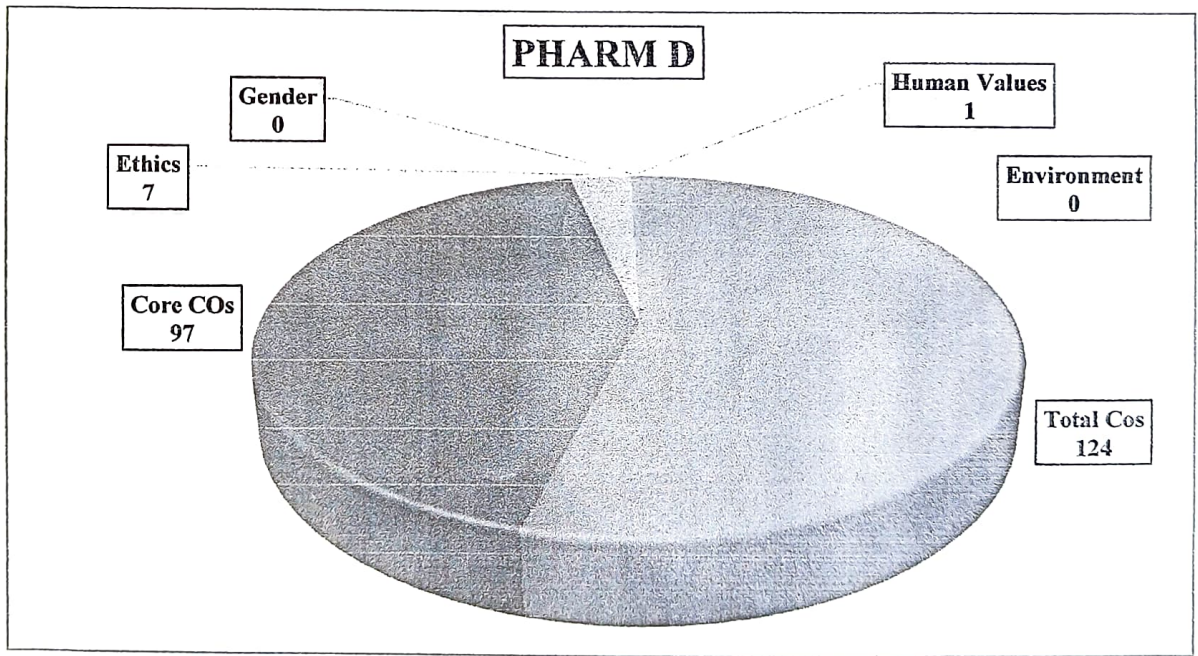
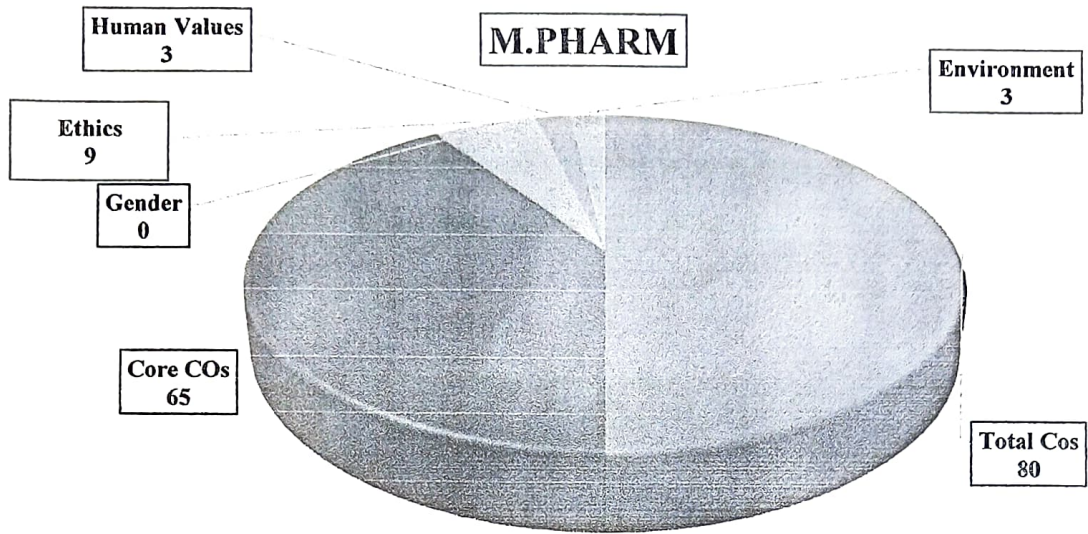
Department	Total Cos	Core COs	Ethics	Gender	Human Values	Environment
B. Pharm	325	308	10	2	3	5
M. Pharm	80	65	9	0	3	3
Pharm D	124	97	7	0	1	0
TOTAL	529	470	26	2	7	8





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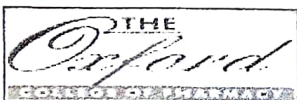
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The Oxford College of Pharmacy has a well-defined Course Outcomes for all course as per RGUHS Guideline. For the Academic Year 2023-2024 there is no change in the COs. Those Course Outcomes (COs) are what the student should be able to do at the end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

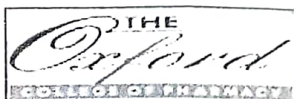
Ethics in education supports in educational system management and ensures that these behaviours contribute favourably to human well-being. The college has worked hard to provide value-based education to students in order to help them understand moral values and professional ethics, with the goal of strengthening 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.

P. Radhika
PRINCIPAL

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SYLLABUS CROSS CUTTING

B. PHARMACY

Semester I

Course code	Name of the course	No. of hours	Tutorial	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^s/36[#]	4	27/29^s/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

P. Padma

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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 code	Name of the course	No. of hours	Tutorial	Credit 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 Pharmacy I– Theory	3	1	4



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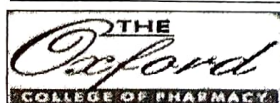
BP503T	Pharmacology II – Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II– Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	4
BP506P	Industrial PharmacyI – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total		27	5	26

semester VI

Course code	Name of the course	No. of hours	Tutorial	Credit 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 – Theory	3	1	4
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	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
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	1
1.2	Pharmaceutics	2	3	1
1.3	Medicinal Biochemistry	3	3	1
1.4	Pharmaceutical Organic Chemistry	3	3	1
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 hours of Theory	No. of hours of Practical	No. of hours of 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 hours of Theory	No. of hours of Practical	No. of hours of 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)

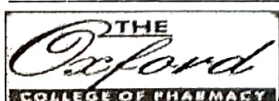
FIFTH YEAR

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 Pharmacoconomics	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 hours of Theory	No. of hours of Practical	No. of 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 II					
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



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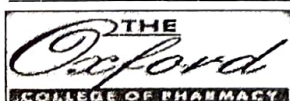
MPH204T	Cosmetic and Cosmeceuticals	4	4	4	100
MPH205P	Pharmaceutics Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

M.PHARM PHARMACOGNOSY

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
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 II					
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 II					
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

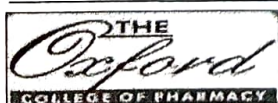
M.PHARM III SEM (PHARMACEUTICS, PHARMACOGNOSY, PHARMACOLOGY)

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

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

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

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CLASS	COURSE	SLNO	COURSE OUTCOMES	Ethics	Human values	Gender equality	Environmental sustainability	Dessertation/Field visit/Internship
I SEM B PHARM	Human Anatomy and Physiology -I	1	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.					
		4	Perform the various experiments related to special senses and nervous system.					
		5	Appreciate coordinated working pattern of different organs of each system.					
	Pharmaceutical Analysis-I	1	Understand the principles of volumetric and electro chemical analysis.					
		2	Carryout various volumetric and electrochemical titrations.					
		3	Develop analytical skills					
	Pharmaceutics-I	1	Know the history of profession of pharmacy					
		2	Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations					
		3	Understand the professional way of handling the prescription					
		4	Preparation of various conventional dosage forms.					
	Pharmaceutical Inorganic Chemistry	1	Know the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals					
		2	Understand the medicinal and pharmaceutical importance of inorganic compounds					
	Communication Skills	1	Understand the behavioural needs for a Pharmacist to function effectively in the areas of pharmaceutical operation	1		1		
		2	Communicate effectively (Verbal and Non-Verbal)	1		1		
		3	Effectively manage the team as a team player	1		1		
		4	Develop interview skills	1				
		5	Develop Leadership qualities and essentials					
	Remedial Biology	1	Know the classification and salient features of five kingdoms of life					
		2	Understand the basic components of anatomy & physiology of plant					
		3	Know understand the basic components of anatomy & physiology animal with special reference to human.					
	Remedial Mathematics	1	Know the theory and their application in Pharmacy					
		2	Solve the different types of problems by applying theory					
		3	Appreciate the important application of mathematics in Pharmacy					

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II SEM B.PHARM	Human Anatomy and Physiology -II	1	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.			
		4	Perform the haematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc and also record blood pressure, heart rate, pulse and respiratory volume.			
		5	Appreciate coordinated working pattern of different organs of each system			
		6	Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body			
	Pharmaceutical Organic Chemistry -I	1	Write the structure, name and the type of isomerism of the organic compound			
		2	Write the reaction, name the reaction and orientation of reactions			
		3	Account for reactivity/stability of compounds.			
		4	Identify/confirm the identification of organic compound.			
	Biochemistry	1	Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.			
		2	Understand the metabolism of nutrient molecules in physiological and pathological conditions.			
		3	Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.			
	Pathophysiology	1	Describe the etiology and pathogenesis of the selected disease states.			
		2	Name the signs and symptoms of the diseases.			
		3	Mention the complications of the diseases			
	Computer Applications in Pharmacy	1	Know the various types of application of computers in pharmacy			
		2	Know the various types of databases			
		3	Know the various applications of databases in pharmacy			
	Environmental Sciences	1	Create the awareness about environmental problems among learners.			
		2	Impart basic knowledge about the environment and its allied problems.			1
		3	Develop an attitude of concern for the environment.			1
		4	Motivate learner to participate in environment protection and environment improvement.			1

III SEM B.PHARM	Pharmaceutical Organic Chemistry-II	1	Write the structure, name and the type of isomerism of the organic compound			
		2	Write the reaction, name the reaction and orientation of reactions			
		3	Account for reactivity/stability of compounds			
		4	Prepare organic compounds			
		Physical Pharmaceutics - I				
		1	Understand various physicochemical properties of drug molecules in the designing the dosage form			
2	Know the principles of chemical kinetics & to use them in assigning expiry date for formulation					
3	Demonstrate use of physicochemical properties in evaluation of dosage forms.					
4	Appreciate physicochemical properties of drug molecules in formulation research and development					
Pharmaceutical Microbiology	1	Understand methods of identification, cultivation and preservation of various microorganisms				
	2	Importance of sterilization in microbiology and pharmaceutical industry				
	3	Learn sterility testing of pharmaceutical products.				
	4	Microbiological standardization of Pharmaceuticals.				
	5	Understand the cell culture technology and its applications in pharmaceutical industries.				
Pharmaceutical Engineering	1	To know various unit operations used in Pharmaceutical industries.				
	2	To understand the material handling techniques.				
	3	To perform various processes involved in pharmaceutical manufacturing process.				
	4	To carry out various test to prevent environmental pollution.				
	5	To appreciate and comprehend significance of plant layout design for optimum use of resources.				
	6	To appreciate the various preventive methods used for corrosion control in Pharmaceutical industries				
IV SEM B.PHARM	Pharmaceutical Organic Chemistry -III	1	Understand the methods of preparation and properties of organic compounds			
		2	Explain the stereo chemical aspects of organic compounds and stereo chemical reactions			
		3	Know the medicinal uses and other applications of organic compounds			
Medicinal Chemistry-I	1	Understand the chemistry of drugs with respect to their pharmacological activity				
	2	Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs				
	3	Know the Structural Activity Relationship (SAR) of different class of drugs				
Physical Pharmaceutics - II	1	Write the chemical synthesis of some drugs				
	2	Understand various physicochemical properties of drug molecules in the designing the dosage form				
	3	Know the principles of chemical kinetics & to use them in assigning expiry date for Formulation				
	4	Demonstrate use of physicochemical properties in evaluation of dosage forms.				
Pharmacology-I	1	Appreciate physicochemical properties of drug molecules in formulation research and Development				
	2	Understand the pharmacological actions of different categories of drugs				
	3	Explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels.				
	4	Apply the basic pharmacological knowledge in the prevention and treatment of various diseases				
Pharmacognosy and Phytochemistry - I	1	Observe the effect of drugs on animals by simulated experiments				
	2	Appreciate correlation of pharmacology with other bio medical sciences				
	3	To know the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents				
	4	To understand the preparation and development of herbal formulation.				
Pharmaceutical Jurisprudence	1	To carryout isolation and identification of phytoconstituents				
	2	The Pharmaceutical legislations and their implications in the development and marketing. 2. Various Indian pharmaceutical Acts and Laws		1		
	3	The regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals		1		
			The code of ethics during the pharmaceutical practice		1	

B.PHARM VIII SEM Biostatistics and Research Methodology	1	Know the operation of M.S. Excel, SPSS, R and MINITAB @, DoE (Design of Experiment)			
	2	Know the various statistical techniques to solve statistical problems			
	3	Appreciate statistical techniques in solving the problems			
Social and Preventive Pharmacy	1	Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide.	1		
	2	Have a critical way of thinking based on current healthcare development.	1		
	3	Evaluate alternative ways of solving problems related to health and pharmaceutical issues to provide an understanding of marketing concepts and techniques and the application of the same in the pharmaceutical industry	1		
Pharmaceutical Marketing	1	Know about the process of drug discovery and development			
	2	Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals			
	3	Know the regulatory approval process and their registration in Indian and international markets			
Pharmacovigilance	1	The importance of drug safety monitoring			
	2	History and development of pharmacovigilance			
	3	National and international scenario of pharmacovigilance			
	4	Dictionaries, coding and terminologies used in pharmacovigilance			
	5	Detection of new adverse drug reactions and their assessment			
	6	International standards for classification of diseases and drugs			
	7	Adverse drug reaction reporting systems and communication in pharmacovigilance			
	8	Methods to generate safety data during pre-clinical, clinical and post approval phases of drugs' life cycle			
	9	Drug safety evaluation in paediatrics, geriatrics, pregnancy and lactation			
	10	Pharmacovigilance Program of India (PVP)			
	11	ICH guidelines for ICSR, PSUR, expedited reporting, pharmacovigilance planning			
	12	CIOMS requirements for ADR reporting			
	13	Writing case narratives of adverse events and their quality.			
Quality Control and Standardisation of	1	WHO guidelines for quality control of herbal drugs			
	2	Quality assurance in herbal drug industry			
	3	The regulatory approval process and their registration in Indian and international markets			
	4	Appreciate EU and ICH guidelines for quality control of herbal drugs			
Computer Aided Drug Design	1	Design and discovery of lead molecules			
	2	The role of drug design in drug discovery process			
	3	The concept of QSAR and docking			
	4	Various strategies to develop new drug like molecules.			

Cell and Molecular Biology	1	Summarize cell and molecular biology history.				
	2	Summarize cellular functioning and composition.				
	3	Describe the chemical foundations of cell biology.				
	4	Summarize the DNA properties of cell biology.				
	5	Describe protein structure and function.				
	6	Describe cellular membrane structure and function.				
	7	Describe basic molecular genetic mechanisms.				
	8	Summarize the Cell Cycle				
Experimental Pharmacology	1	Appreciate the applications of various commonly used laboratory animals.				1
	2	Appreciate and demonstrate the various screening methods used in preclinical research.				1
	3	Appreciate and demonstrate the importance of biostatistics and research methodology				1
	4	Design and execute a research hypothesis independently				
Advanced Instrumentation Techniques	1	Understand the advanced instruments used and its applications in drug analysis				
	2	Understand the chromatographic separation and analysis of drugs.				
	3	Understand the calibration of various analytical instruments				
	4	Know analysis of drugs using various analytical instruments				1

COURSE	COURSE NUMBER	COURSE TITLE	COURSE DESCRIPTION	COURSE OBJECTIVES	COURSE OUTCOMES
Pharm	Human Anatomy and Physiology	1	Describe the structure (gross and histology) and functions of various organs of the human body		
		2	Describe the various homeostatic mechanisms and their imbalances of various systems		
		3	Identify the various tissues and organs of the different systems of the human body,		
		4	Perform the hematological tests and also record blood pressure, heart rate, pulse and Respiratory volumes		
		5	Appreciate coordinated working pattern of different organs of each system, and		
		6	Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of the human body		
	Pharmaceutics	1	Know the formulation aspects of different dosage forms,		
		2	Do different pharmaceutical calculation involved in the formulation,		
		3	Formulate different types of dosage forms, and		
		4	Appreciate the importance of good formulation for effectiveness		
	Medical Biochemistry	1	Understand the catalytic activity of enzymes and importance of isoenzymes in diagnosis of diseases,		
		2	Know the metabolic process of biomolecules in health and illness (metabolic disorders),		
		3	Understand the genetic organization of mammalian genome, protein synthesis, replication, mutation and repair mechanism,		
		4	Know the biochemical principles of organ function tests of kidney, liver and endocrine gland, and		
		5	Do the qualitative analysis and determination of biomolecules in the body fluids.		
	Pharmaceutical Organic Chemistry	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,		
		3	Free radical, nucleophilic (alkyl/ acyl/ aryl) / electrophilic substitution, free radical nucleophilic/ electrophilic addition, elimination, oxidation and reduction reactions with mechanism, orientation of the reaction, order of reactivity, stability of compounds,		
		4	Some named organic reactions with mechanisms, and		
		5	Methods of preparation, test for purity, principle involved in the assay, important medicinal uses of some important organic compounds.		
	Pharmaceutical Inorganic Chemistry	1	Understand the principles and procedures for analysis of drugs and also regarding the application of inorganic pharmaceuticals,		
		2	Know the analysis of the inorganic pharmaceuticals their applications, and		
		3	Appreciate the importance of inorganic pharmaceuticals in preventing and curing the disease.		
	Remedial Mathematics Biology	1	Know Trigonometry, Analytical geometry, Matrices, Determinant, Integration, Differential equation, Laplace transform and their applications,		
		2	Solve the problems of different types by applying theory, and		
		3	Appreciate the important applications of mathematics in pharmacy.		

		3	Appreciate the important applications of manurements in pharmacy.	
Pharm D	Pathophysiology	1	Describe the etiology and pathogenesis of the selected disease states;	
		2	Name the signs and symptoms of the diseases, and	
		3	Mention the complications of the disease.	
Pharmaceutical Microbiology	1	Know the anatomy, identification, growth factors and sterilization of microorganisms;		
	2	Know the mode of transmission of disease causing microorganism, symptoms of disease, and treatment aspect;		
	3	Do estimation of RNA and DNA and thereby identifying the source;		
	4	Do cultivation and identification of the microorganisms in the laboratory;		
	5	Do identification of diseases by performing the diagnostic tests; and		
	6	Appreciate the behavior of motility and behavioral characteristics of microorganisms.		
Pharmacognosy and Phytopharmaceuticals	1	Understand the basic principles of cultivation, collection and storage of crude drugs		
	2	Know the source, active constituents and uses of crude drugs		
	3	Appreciate the applications of primary and secondary metabolites of the plant		
Pharmacology-I	1	Understand the pharmacological aspects of drugs falling under the above mentioned chapters;		
	2	Handle and carry out the animal experiments;		
	3	Appreciate the importance of pharmacology subject as a basis of therapeutics; and		
	4	Correlate and apply the knowledge therapeutically.		
Community Pharmacy	1	Know pharmaceutical care services;		
	2	Know the business and professional practice management skills in community pharmacies;		
	3	Do patient counselling & provide health screening services to public in community pharmacy;		
	4	Respond to minor ailments and provide appropriate medication;		
	5	Show empathy and sympathy to patients; and		
	6	Appreciate the concept of Rational drug therapy.		
Pharmacotherapeutics I	1	The pathophysiology of selected disease states and the rationale for drug therapy;		
	2	The therapeutic approach to management of these diseases;		
	3	The controversies in drug therapy;		
	4	The importance of preparation of individualised therapeutic plans based on diagnosis;		
		5	Needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects);	
		6	Describe the pathophysiology of selected disease states and explain the rationale for drug therapy;	
		7	Summarise the therapeutic approach to management of these diseases, including references to the latest available evidences;	
		8	Discuss the controversies in drug therapy;	
		9	Discuss the preparation of individualised therapeutic plans based on diagnosis; and	
		10	Identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).	

IPD	Pharmacology II	1	Understand the pharmacological aspects of drugs falling under the above mentioned chapters,	
		2	Carry out the animal experiments confidently,	
		3	Appreciate the importance of pharmacology subject as a basis of therapeutics, and	
		4	Correlate and apply the knowledge therapeutically	
	Pharmaceutical Analysis	1	Understand the principles of volumetric and electrochemical analysis	
		2	Carry out various volumetric and electrochemical titrations	
		3	Develop analytical skills	
		4	Understand the chromatographic separation and analysis of drugs.	
		5	Perform quantitative & qualitative analysis of drugs using various analytical instruments.	
	Pharmacotherapeutics II	1	Know the pathophysiology of selected disease states and the rationale for drug therapy	
		2	Know the therapeutic approach to management of these diseases;	
		3	Know the contraindications in drug therapy;	
		4	Know the importance of preparation of individualised therapeutic plans based on diagnosis; and	
		5	Appreciate the needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects)	
	Pharmaceutical Jurisprudence	1	Practice the Professional ethics	I
		2	Understand the various concepts of the pharmaceutical legislation in India;	I
		3	Know the various parameters in the Drug and Cosmetic Act and rules;	I
		4	Know the Drug policy, DPCO, Patent and design act;	I
		5	Understand the labeling requirements and packaging guidelines for drugs and cosmetics;	I
		6	Be able to understand the concepts of the Dangerous Drugs Act, Pharmacy Act and Excise duties Act; and	I
		7	Other laws as prescribed by the Pharmacy Council of India from time to time including International Laws.	I
	Medicinal Chemistry	1	Understand the chemistry of drugs with respect to their pharmacological activity	
		2	Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs	
		3	Know the Structural Activity Relationship of different class of drugs	
		4	Study the chemical synthesis of selected drugs.	
	Pharmaceutical Formulations	1	Understand the principle involved in formulations of various pharmaceutical dosage forms;	
		2	Prepare various pharmaceutical formulations;	
		3	Perform evaluation of pharmaceutical dosage forms; and	
		4	Understand and appreciate the concept of bioavailability and bioequivalence, their role in clinical situations.	

IV PD	Pharmacotherapeutics III	1	The pathophysiology of selected disease states and the rationale for drug therapy;			
		2	The therapeutic approach to management of these diseases;			
		3	The controversies in drug therapy;			
		4	The importance of preparation of individualised therapeutic plans based on diagnosis;			
		5	Needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects);			
		6	Describe the pathophysiology of selected disease states and explain the rationale for drug therapy;			
		7	To summarize the therapeutic approach to management of these diseases including reference to the latest available evidence;			
		8	To discuss the controversies in drug therapy;			
		9	To discuss the preparation of individualised therapeutic plans based on diagnosis; and			
		10	Identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).			
	Hospital Pharmacy	1	Know various drug distribution methods;			
		2	Know the professional practice management skills in hospital pharmacies;			
		3	Provide unbiased drug information to the doctors;			
		4	Know the manufacturing practices of various formulations in hospital set up;			
		5	Appreciate the practice based research methods; and			
		6	Appreciate the stores management and inventory control.			
	Clinical Pharmacy	1	Monitor drug therapy of patient through medication chart review and clinical review;			
		2	Obtain medication history interview and counsel the patients;			
		3	Identify and resolve drug related problems;			1
		4	Detect, assess and monitor adverse drug reaction;			1
		5	Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states; and			1
		6	Retrieve, analyse, interpret and formulate drug or medicine information.			

CLASS	COURSE	BLNC	COURSE OUTCOMES	Basic	Human Ring	Gender equality	Environmental sustainability	Research/Field visit/Internship
M. PHARM I SEM (PHARMACEUTICS)	Modern Pharmaceutical Analyticals	1	The analysis of various drugs in single and combination dosage forms					
		2	Theoretical and practical skills of the instrument					
	Drug Delivery System	1	The various approaches for development of novel drug delivery systems.					
		2	The criteria for selection of drugs and polymers for the development of the formulation and evaluation of Novel drug					
	Modern pharmaceuticals	1	To understand the Active Pharmaceutical Ingredients and Generic drug Product development					
		2	To learn Industrial Management and GMP Considerations.					
		3	To understand Optimization Techniques & Pilot Plant Scale Up Techniques					
		4	To study Stability Testing, sterilization process & packaging of dosage forms					
	Regulatory Affairs	1	The Concepts of innovator and generic drugs, drug development process					
		2	The Regulatory guidance's and guidelines for filing and approval process.					
		3	Preparation of Dossiers and their submission to regulatory agencies in different countries	1				
		4	Post approval regulatory requirements for actives and drug products					
M. PHARM II SEM (PHARMACEUTICS)	Modern Pharmaceuticals (NTDS)	1	The various approaches for development of novel drug delivery systems.					
		2	The criteria for selection of drugs and polymers for the development of NTDS					
		3	The formulation and evaluation of novel drug delivery systems					
	Advanced Biopharmaceutics and	1	The basic concepts in biopharmaceutics and pharmacokinetics.					
		2	The use raw data and derive the pharmacokinetic models and parameters the best describe the process of drug absorption, distribution, metabolism and elimination.					
		3	The critical evaluation of biopharmaceutic studies involving drug product equivalency. The design and evaluate dosage regimens of the drugs using pharmacokinetic and biopharmaceutic parameters.					1
		4	The potential clinical pharmacokinetic problems and apply basic pharmacokinetic					
		5	The principles to solve them					
	Computer Aided Drug Design	1	History of Computers in Pharmaceutical Research and Development					
		2	Computational Modelling of Drug Disposition					
		3	Computers in Preclinical Development					
		4	Optimization Techniques in Pharmaceutical Formulation					
		5	Computers in Market Analysis					
		6	Computers in Clinical Development					
		7	Artificial Intelligence (AI) and Robotics.					
		8	Computational fluid dynamics (CFD)					
	Cosmetics and Cosmeceuticals	1	The key ingredients used in cosmetics and cosmeceuticals.					
		2	The key building blocks for various formulations.					
		3	The current technologies in the market					
		4	The various key ingredients and basic science to develop cosmetics and cosmeceuticals					

M. PHARM I SEM (PHARMACOLOGY)	Modern Pharmaceutical Analytical	1	The analysis of various drugs in single and combination dosage forms						1
	Advanced Pharmacology -I	2	Theoretical and practical skills of the instrument						
		1	Discuss the pathophysiology and pharmacotherapy of certain diseases						
		2	Explain the mechanism of drug actions at cellular and molecular level						
	Pharmacological and Toxicologic	3	Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases						
		1	Appraise the regulations and ethical requirement for the usage of experimental animals.						
		2	Describe the various animals used in the drug discovery process and good laboratory practices in maintenance and handling of experimental animals						
		3	Describe the various newer screening methods involved in the drug discovery process.						1
	Cellular and Molecular Biology	4	Appreciate and correlate the preclinical data to humans						
		1	Explain the receptor signal transduction processes.						
		2	Explain the molecular pathways affected by drugs.						
		3	Appreciate the applicability of molecular pharmacology and biomarkers in drug discovery process.						
	Advanced Pharmacology-II	4	Demonstrate molecular biology techniques as applicable for pharmacology						
1		Explain the mechanism of drug actions at cellular and molecular level							
2		Discuss the Pathophysiology and pharmacotherapy of certain diseases							
3		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.						1
		2	Appreciate the importance of ethical and regulatory requirements for toxicity studies.						
		3	Demonstrate the practical skills required to conduct the preclinical toxicity studies.						
Principles of Drug Discovery		1	Explain the various stages of drug discovery.						
		2	Appreciate the importance of the role of genomics, proteomics and bioinformatics in drug discovery						
		3	Explain various targets for drug discovery.						
		4	Explain various lead seeking method and lead optimization						
Clinical Research and Pharmacovigilance		1	Explain the regulatory requirements for conducting clinical trial						
		2	Demonstrate the types of clinical trial designs						
		3	Explain the responsibilities of key players involved in clinical trials						
		4	Execute safety monitoring, reporting and close-out activities						
		5	Explain the principles of Pharmacovigilance						
		6	Detect new adverse drug reactions and their assessment						

M.PHARM I SEM (PHARMACOGNOSY)						
		7	Perform the advise drug reaction, reporting systems and communication in Pharmacovigilance			
	Modern Pharmaceutical Analytical	1	The analysis of various drugs in single and combination dosage forms			1
		2	Theoretical and practical skills of the instrument			
	Advanced Pharmacognosy-I	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			1
		2	To know the process of identification, purification and isolation of phytoconstituents			
	Industrial Pharmacognostical tec	1	Know the requirements for the setting up of herbal/natural drug industry			
		2	To know and understand the guidelines for quality or herbal medicines			
		3	To know the patenting IPR of herbs and trade of raw and finished materials			
	Medicinal plant biotechnology	1	Know the process like genetic engineering in medicinal plants for higher yield of Phytopharmaceuticals			1
		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 remedies			
		2	Know the methods of detection of adulteration and evaluation techniques for the herbal drugs			
		3	To know the methods of screening of herbs for various biological properties			1
	Indian systems of Medicine	1	To understand the basic principles of various Indian systems of medicine			
		2	To know the clinical research of traditional medicines, Current Good Manufacturing Practice of Indian systems of medicine and formulation			
	Herbal Medicines	1	Understand the basic principles of various herbal/natural cosmetic preparations			
		2	Current Good Manufacturing Practices of herbal/natural cosmetics as per the regulatory authorities			1
	SEMESTER-III AND IV RESEARCH WORK	1	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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PRINCIPAL

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