



WOMEN EMPOWERMENT COMMITTEE

Co-ordinator Dr Sarita Shrivastava

Advisor : Dr Meenakshi Verma

Members : Dr Minakshi Bhattacharjee

Dr Meghana Kulkarni

Dr Sukumar Lipare

Objectives

1.To Create awareness on gender equality issues by organizing seminars, publishing and displaying handouts on gender sensitization

2. To Prevent gender discrimination and sexual harassment of students and staff by sensitizing the students and staff and changing their patriarchal mindset towards women

3.To lay a stepping stone for building a society free of any gender bias as envisaged by the Indian Constitution

4. To reach out to underprivileged women to teach them about their rights

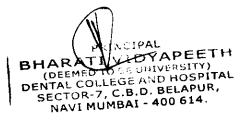
5. To conduct guest lectures, seminars and workshops on gender sensitization 6.To Create a friendly environment so that students and staff can share their concerns with the cell and also to sensitise the college staff towards womens problems

7.To help women lead a balanced life with good mental and physical health8. To make them aware about the guidelines of Supreme Court and to ensure that sexual harassment is treated as an uncceptable social behavior within the institution

and the society

Vision

To enable female teaching and nonteaching staff and students to tap their true potential and to maintain a dignified and congenial environment at the workplace



Mission

To train the women to acquire a wide range of knowledge and to identify women with leadership and enterpreneur quality who can become change makers of the society and be job providers instead of job seekers and to encourage students to become self-reliant and economically independent

To make students aware of various types of sexual abuse and their right to complain as per supreme court guidelines

Long term goals

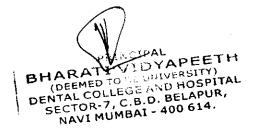
1. To create and ensure a balanced gender equal environment in the campus both for students and staff

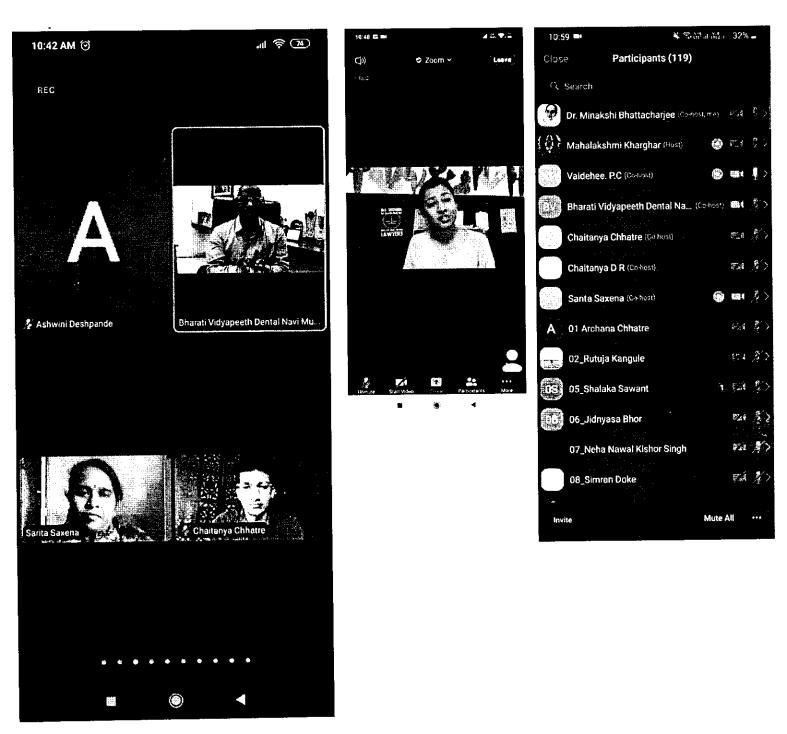
2.To propose specific strategies for upliftment of women and their representation in higher levels in all walks of life

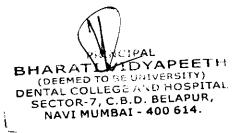
3. To have regular feedback from students and staff regarding the environment at campus

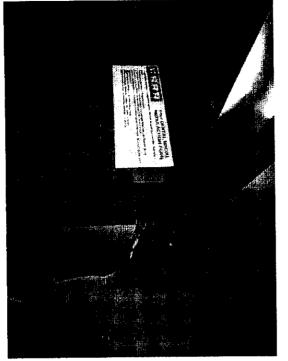
ACTIVITIES DONE BY WOMEN EMPOWERMENT CELL

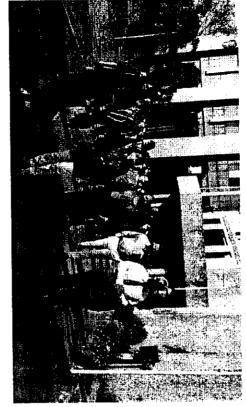
- A session on Women's social economic and legal rights by Advocate Vaidehee Chhatre was arranged on Occasion of Respected Balasaheb's Birthday on 13th Jan 2021 at 10.30 am. The session was conducted on online platform on zoom and 130 people attended the session
- 2. A programme was organized on 4 th march 2021. The programme started with a walkathon in college premises at 9 am followed by a talk by a Guest Speaker Dr Anisa Shaikh on topic "Being Unapologetically you. Embrace that powerful woman inside. Build your Brand in post Covid Era" This was followed by a talk By Principal Sir Dr V. Sreenivasan on "SOFT SKILLS". E poster Competition was held wherein all year students participated and submitted posters online. 50 students and 50 teaching and non teaching staff attended the event















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Date 2 1 / 25 /2021

NOTICE

RESEARCH METHODOLOGY LECTURES (REVISED SCHEDULE) FOR FIRST MDS POSTGRADUATE STUDENTS

(TUESDAY 1.00 PM-2.00 PM)

DATE	TOPIC	STAFF	
01/06/21	Literature search and critical appraisal of scientific literature	Dr V Sreenivasan	
08/06/21	Literature search and critical appraisal of scientific literature	Dr. V. Sreenivasan	
15/06/21	Research bias and types	Dr. Suyog Sawant	
22/06/21	Evidence Based Dentistry	Dr. V. Sreenivasan	
29/06/21	Evidence Based Dentistry	Dr. V. Sreenivasan	
06/07/21	at Ethical considerations in Research	Dr. Haritha N	
13/07/21	Designing a questionnaire study	Dr. Ashwin Jawdekar	
20/07/21	Qualitative Research	Dr. Suyog Sawanit	
27/07/21	Animal experimental protocols, Principals in the development, execution, and interpretation of methodologies	Dr. Parag Gangurde	
03/08/21	Documents in Research	Dr. Meghana Kulkarni	ų,
10/08/21	Development of skills for preparing clear concise Scientific abstracts and Publications	Dr. Ashwin Jawdekar	

*Interested faculty as well as 2rd and 3rd MDS students may also attend the above lectures after due consent from HOD/Incharges

Attendance is mandatory for all 1 MDS students

*The lectures will be delivered on an online platform, the link for the same will be shared a day prior by the concerned staff.

a a <u>.</u>.... × • Principal Dr. V. Sreenivasan (

INCIPAL BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY) DENTAL COLLEGE AND HOSPITAL VIDYAPEETH SECTOR-7, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.

BHARATI VIDYAPEETH

(DEEMED TO BE UNIVERSITY)

DENTAL COLLEGE & HOSPITAL, NAVI MUMBAI

Final Year First Term

EN10010041404 05310-9/120000 Lecture and Practical Schedule from 10/12/20 onwards

Timiner		1			onnuluus	
Timings	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00am- 9:00am		Pedodontics		Periodontics		Public Health
9:00am- 10:00am		Periodontics		Orthodontics		Dentistry Periodontics
10:00am- 11:00am 11:00am-	Physical	Orthodontics	Physical	OMDR		OMDR
12:00pm 12:00pm	Clinical Posting In Respective	OMDR	Clinical Posting In	Prosthodontics	Physical Clinical Posting In	Orthodontics
-1.00pm 1:00-	Departments	Lunch	Respective Departments	Lunch	Respective Departments	Lunch
2:00pm	Ì	Conservative Dentistry		Public Health Dentistry		👗 Ethics
2:00pm- 3:00pm		Public Health		Oral Surgery		
3:00pm - 4.00 pm		Dentistry Online Clinical Posting		Online Clinical Posting		Online Clinicai Posting Online Clinica: Posting

- On Monday, Wednesday and Friday physical clinical postings will be held in the • respective departments of the college
- On Tuesday, Thursday, and Saturday online lectures and practicals will be
- *Terminal Exams for Final First Subjects ~ 04/01/2021 to 11/01/2021
- *2nd Sessional Exams for Final First Subjects 01/02/2021 06/02/2021

PAL IDYAPEETH BHAR (DEEMED TO BE UNIVERSITY) DENTAL COLLEGE AND HOSPITAL UNIVERSITY) SECTOR-7, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.

Bharati Vidyapeeth (Deemed to be Urrersity) Dental College & Hospital, Navi Mumbai.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
8.30am- 9.30am	Р	General Microbiology	р	General Pathology	P	Preclinical Prosthodontics	
9.30am- 10.30am	H Y	DMS (Prostho)	H Y	General Microbiology	H	General Pathology	
10.30am- 11.30am	S 	Preclinical Conservative Dentistry	S I	General Pharmacology	S .	General Microbiology	
11.30am- 12.30pm	с	General Pharmacology	с	DMS (Cons)	c	¥ EVS	
12.30pm- 1.30pm	A L	Lunch	A L	Lunch	- A -	Lunch	HARANI WOYAPEET
1.30pm- 2.30pm	Practical	General Pathology	Practical	Oral pathology	- Practical +	General Pharmacology DE	HARANI WDYAPEET HARANI WDYAPEET (DEEMED TO BE UNIVERSITY) (DEEMED TO BE UNIVERSITY) ENTAL COLLEGE AND HOSPIT ENTAL COLLEGE AND HOSPIT SECTOR-7, C.B.D. BELAPUR, SECTOR-7, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.
2.30pm- 3.30pm		Assignment – General Microbiology		Assignment – General Pathology	, roctical	Assignment – General Pharmacology	NAVI MUMBA

On Monday, Wednesday, and Friday there will be physical practicals in college in respective departments,

- On Tuesday, Thursday, and Saturday there will be online lectures and practicals
- 1st Sessional exams will be held in 01/09/21-09/09/21
- Terminal examinations will be held from 15/11/21 to 26/11/21

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Bharati Vidyapeeth (Deemed to be University) College of Ayurved, Pune.

Criterion I – Curricular aspects Year- July 2020 to June 2021.

1.3.1. Institution integrates cross cutting issues relevant to professional ethics, Gender, Human values, Environment & sustainability into the curriculum

Internship Orientation Program

Internship Orientation Program was organized in the college of Ayurved, Bharati Vidyapeeth

[DU], Pune on 06/03/2021to 13/03/2021.

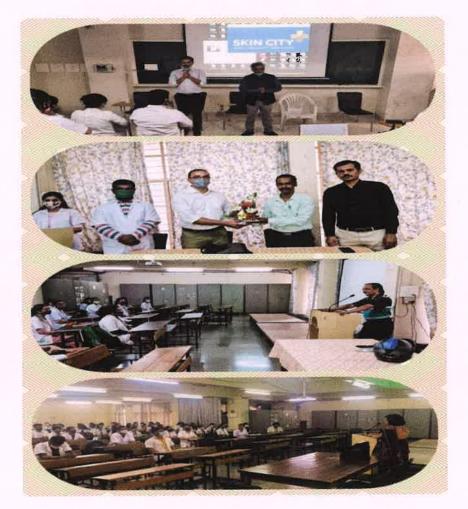
Seven day program was inaugurated by Principal and Dean of college and started with

Hippocrates oath.

Total 74 interns have attended the program.

Important topics like ethics and social responsibility with various opportunity in administrative field was explained by Dr. Kaustubh Bondre. Scope and opportunities in Ayurved after BAMS graduation was elaborated by Dr. Rasik Pavaskar. Scope in Ayurvedic pharma industries was explained by Dr Ramdas Kute. Recent trends in dermatology was explained by Dr Nitin Dhepe. Apart from these faculty members form our college Dr Pai, Dr Rokade, Dr Dalvi-Pawar, Dr Deshpande, Dr Matekar, Dr Namewar, Dr Kumbhar, Dr Kulkarni, Dr Patil, Dr Mohite, Dr Mulik, Dr Patwardhan, Dr Dhurve and Dr Paliwal have delivered lectures on various topics to guide interns.

Bharati Vidyapeeth (Deemed to be University) College of Ayurved Pune-Satara Road, Pune-411 043.



Internship Reorientation programme

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERITY), PUNE INDIA COLLEGE OF AYURVED PUNE- SATARA ROAD, PUNE-411043

INTERNSHIP ORIENTATION PROGRMEME

From 06 / 03 / 2021 TO 13 / 03 / 2021 Venue: - Dhanavantari Hall College of Ayurveda.

	Day 1 : 06 / 03 / 2021 Saturday	
10.30am to 11.00am	Welcome & Hippocrates Oath	Hon'ble Principal Dr.A.B.Patil Sir
11.00am to 12.00 noon	Ethics and Social Responsibility with various Opportunities in Administrative field	Dr.Kaustubh Bondre Sir
	Day 2 : 08 / 03 / 2021 Monday	
10,00am to 11.00am	Scope & opportunities in Ayurveda after B.A.M.S Graduation	Dr. Pawaskar Sir
11.00am to 12.00 noon	Common paediatric problem in General Practice	Dr. Pai Madam
12.00 noon to 01.00pm	Training on Hospital infection control	Dr. Rokade Sir
	Day 3: 09 / 03 / 2021 Tuesday	
10.00am to 11.00am	Scope in Ayurevdic Pharmaceutical industry	Dr. Ramdas Kute Sir
11.00am to 12.00 noon	Avurvedic Formulation & prescription Writing in	
12.00 noon to 01.00pm	Pharmacovigilance for Ayurved	Dr. Deshpande Madau
	Day 4: 10 / 03 / 2021 Wednesday	
10.00am to 11.00am	Panchakarma in General Practice	Dr. Matekar Madam
1.00am to 12.00 noon	Medico-legal issues	Dr. Namewar Sir
2.00 noon to 01.00pm	Emergency management in Hospital	Dr. Kumbhar Sir
	Day 5: 11 / 03 / 2021 Thursday	
9.30am to 10.30am	Emergency in Gyn & Obs. Practice	Dr. Kulkarni Madan
0.30am to 11.30 am	Recent trends in Dermatology	Dr. Nitin Dhepe Sir
1.30 am to 12.30pm	ENT in General Practice	Dr. G. B. Patil Sir
	Day 6: 12 / 03 / 2021 Friday	
9.30am to 10.30am	Medical ethics and Gender sensitization	Dr.Mohite Madam
0.30am to 11.30 am	National Health Programme	Dr.Patwardhan Sir
1.30 am to 12.30pm	Emergency in Ophthalmic Practice	Dr. Mulik Sir
	Day 7: 13 / 03 / 2021 Saturday	
0.00am to 11.00 am	Documentation & Internship Rules and Regulation	Dr. Dhurve Sir
1.00 am to 12.00 noon	Logbook writing and case taking	Dr. Amit Paliwal Sir

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Bharati Vidyapeeth (Deemed to be University) College of Ayurved, Pune.

Criterion I – Curricular aspects Year- July 2020 to June 2021.

1.3.1. Institution integrates cross cutting issues relevant to professional ethics, Gender, Human values, Environment & sustainability into the curriculum

Gender Sensitization

Gender Sensitization training programme for college students plays an important role in the development and growth of the students. The students are the message bearers for the rest of the society.

The objective of the training programme is to:

- Sensitize the students on the gender discrimination.
- Familiar them regarding the constitutional safeguard for gender equality.
- Train the youth on the socio-economic status of Women
- To make them understand the implicit gender based discrimination against women in a lifecycle approach
- Enable them to know the constitutional provisions and laws relating to gender issues in India.

Sr.no	Date	Time	Course	Attendee
1	16/2/21	16/2/21 3.30-4.30 pm III BAMS		90
2	17/2/21	3.30-4.30 pm	I BAMS	84
3	18/2/21	2.30-3.30pm 3.30-	II BAMS	54
		4.30 pm	PG	51
4	20/2/21	11.30-12.30 pm	IV BAMS	86

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Criterion I –Curricular aspects Year- July 2020 to June 2021.

1.3.1 Institution integrates crosscutting issues relevant to professional ethics, Gender, Human values, Environment and sustainability into curriculum

1.3.1

Report

World Environment Day Celebration

On the occasion of world environment day, Sapling plantation event was organized on 5/06/2021 By NSS unit & Dravyaguna department of BVDU College of Ayurved at the Bharati Vidyapeeth University campus, Dhankawadi, Pune.

As we know, Plantation of tree is important as they improve the life and fulfill essential needs of mankind. As is turns out, while trees can help to tackle the rising temperature around the world, on a more personal level planting trees can be life changing career for people as well.

Every year, the Dravyaguna department conducts tree plantation drives at different spots on campus. Volunteers of NSS unit as well as teaching and non-teaching staff of Dravyaguna department participated in this.

On 5/06/2021, students planted a more than 50 saplings of indigenous trees. Dr Abhijit Patil, principal of BVDU College of Ayurved, was also present for the occasion. Tree plantation program went out smoothly; saplings were planted under the guidance of Dr Ninad Nangare & Dr. Amol Patil. 15 Volunteers took active participation and enjoyed a lot, they were provided with refreshments afterwards. This day was really a memorable and taught student and volunteers, the importance of our beautiful environment.

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Teaching learning and evaluation of Environmental science for UG students: Examination

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA

*College :

College : 10 COLLEGE OF AYURVED, PUNE Course : (637) BACHELOR OF AYURVEDIC MEDICINE & SURGERY (2017 COURSE) Course Part (1801) FINAL-B.A.M.S. Marks For ENVIRONMENTAL STUDIES

January 2021

Exam:

		1	T ALLEN T	Kesun
Sr No	PRN No	M/F	Name	PASS
11	1710060004	M	BALDANIA JAIMIN MAGANBHAI	PASS
2	1710060018	M	DUBEY TARUNKUMAR SANJAYBHAI	PASS
3	1710060033	E	JADHAV SHRAVANI PRADEEP	PASS
4	1710060040	M	KADLASKAR SHRAVAN BHARAT	Ab
5	1710060048	F	KSHIRSAGAR VIBHAWARI VINOD	PASS
5	1710060063	F	PATEL HETALBEN DILIPBHAI	PASS
7	1710060065	M	PATEL SHAIVALKUMAR BHARATBHAI	PASS
	1710060067	M	PATEL VISHVAP NARESHBHAI	PASS
	1710060083	F	SARTHI SINGH	I see the first president of the second se
	1710060087	F	SHAHANE SHRADDHA SUNIL	Ab
	1710060088	F	SHAIKH ARSHIYA SHAKIL	PASS
	1710060098	F	WARE SUCHITA RAJESH	PASS
	1710060100	F	YADAV SHWETA RAMCHANDRA	PASS
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Controller of Examinations

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Bharati Vidyapeeth (Deemed to be University) College of Ayurved, Pune.

Criterion I –Curricular aspects Year- July 2020 to June 2021.

1.3.1. Institution integrates cross cutting issues relevant to professional ethics, Gender, Human values, Environment & sustainability into the curriculum

Conduction of Induction program for sensitization of students in relation to human values

1.30 to	Dr.Kavita	Know your syllabus Lectur		The syllabus designed,
2.30 pm	Indapurkar by HOD			covers all aspects of
			S Course Syllabus	Medical field; makes the
	P1	· ·	tion w.s.r to 1 ST	student efficient in Future
0.00	T. 171	BAMS		Medical Practice.
2.30 pm to	Dr.Kirti		al Health and hygiene	Awareness of Eating healthy Hygienic food with
4 pm	Bhati	Importa	ance of diet in ASU	its benefit to society.
4 pm to	Dr.Swati	Profess	ional and Medical	Developed Responsibility
5.30 pm	Mohite	Ethics		in students with Positive
				impact of the knowledge of
				Professional and Medical
				Ethics
2 nd March	. Tuesdav			
1.30 to	Dr.Umesh		Basics of	Enabled Students for Self
2.30 pm	Ghate		PrakritiPareeksha	Prakriti assessment.
2.30 pm to	Dr.Prasad		Role and impact of	Information about
4 pm	Pandkar		Physician in society	Physician's devotional
-				approach towards the
	1 T			welfare of the health of the
				community. Positive effect
				of the Good Ethical Practice.
4 pm to	Dr.SavitaNilakhe		VadatuSanskritam	Importance of the
5.30 pm Dr.VedikaSadhale				knowledge of Vibhakti
· · · ·		8.		while studying Sanskrit.
				4

Dr.GirishShirke		Lecture by eminent person of ASU. Experiences in Ayurved Practice	Uplift the spirit of the students towards Ayurvedic Practice.
Thursday			
Dr.AmitPaliw al	Role of ASU in Public Health and Primary Health Center.		Information regarding the impact of Ayurved& other traditional medicines in remote areas; working system of Ayurved Practitioner in different PHCs.
Manashakti Kendra Pansare Madam	Stress Management and capacity building to address medical challenges. Time Management		Understanding the various means to tackle stress in daily life also prevention of stress. Smart time management for productive life.
Dr.Yogesh Kale	Motivational lecture by eminent person of ASU. Scope and opportunities in Ayurved field.		Information about the result of devotional work in the field of Ayurved and importance of hardwork to serve the society. Scope for students of Ayurved as practioner, academician etc.
Friday			
Dr.Praveen Sadhale	Skills Basic Life Support (BLS) and First Aid		Live demonstration of CPR Technique, different medical emergencies and their management. Hands on training of CPR.
	 Thursday Dr.AmitPaliw al Manashakti Kendra Pansare Madam Dr.Yogesh Kale Friday Dr.Praveen 	ThursdayDr.AmitPaliw alRole or and PriManashakti Kendra Pansare MadamStress capacit medica Time MDr.Yogesh KaleMotiva eminer Scope AyurvaDr.Yogesh KaleMotiva eminer Scope Ayurva	Dr.GirishShirkebodiesDr.GirishShirkeLecture by eminent person of ASU. Experiences in Ayurved PracticeThursdayRole of ASU in Public Health and Primary Health Center.Manashakti Kendra Pansare MadamStress Management and capacity building to address medical challenges. Time ManagementDr.Yogesh KaleMotivational lecture by eminent person of ASU. Scope and opportunities in Ayurved field.FridaySkills Basic Life Support

9.30 am to 12.30 pm		ege Herbal Garden and Mu Patil&Dr.RupeshKaddam	
8 th March,	Monday		
1.30 to 2.30 pm	Dr.SavitaNilakhe Dr.VedikaSadhale	VadatuSanskritam	Basic understanding about Sanskrit language.Importance of proper pronunciation in Sanskrit language. Basic easy method of effective speaking in Sanskrit.
2.30 pm to 4 pm	Dr.SavitaNilakhe	Yoga and Meditation (Fundamental principles)	Understanding the Broad spectrum of Yoga, Importance of Meditation &Pranayam
4 pm to 5.30 pm	Dr.Sneha Salunkhe	Biomedical waste Management	Need of management for controlling the risk factors for the prevention of infectious diseases. Effective waste management with categorization in different colour bags.

9th March, Tuesday

9th March	, Iucsuay		
1.30 to	Dr.Arvind	Lecture by Eminent	Inspiring journey towards
2.30 pm	Kadus	Pharmaceutical	becoming a Pharmaceutical
î		Industrialist (in the field	Industrialist.
		of Ayurved)	
2.30 pm to	Dr.Chitra	Mrig Ayurveda	Understanding about
4 pm	Bedekar		Hastyayurved.
4 pm to 5.30 pm	Dr.MadhuriBhide	Vriksha Ayurveda	Importance of Plantation, advantages, making the organic fertilizer.
10th Marcl	h , Wednesday		

1.30 to 2.30 pm	Dr.SavitaNila khe Dr.VedikaSad hale	VadatuSanskritam	Easy conversation in Sanskrit. Importance of Sanskrit in Ayurved.
2pm to 3.30pm	Dr. Chiplunkar	Introduction about modern medicine and other systems of medicines.	Introduction of Sports Medicine.Scoliosis treatment, 3D Spinal Techniques & scoliosis bracing.
4 pm to 5.30 pm	Mr.SanjayGa wali	Computer skills	Informative session about basic computer skills
11th March	n , Thursday		
1.30 to 2.30 pm	Dr.Verma Sir	*Understanding Interpersonal relationship in healthcare system. *Understanding the Process of Group Learning and Group Dynamics. *Understanding different methods of Self Learning and Collaborative learning.	Inspiring tips to become a successful practitioner & raise social status significantly with the help of maintaining good relationships in healthcare system.
2.30 pm to 4 pm	Dr. Verma sir (Dr.Suzane)	Communicative English	Understanding different grammer topics & dialogue delivery for effective communication in English.
4. pm to 5.30 pm	Dr.Ninad Nangre	Biodiversity and ASU	Interdependence of various natural factors with each other, importance of identification &cultivation the herbs,moral& legal methods for the preservation of biodiversity.

12th March				
Field Visit	to Other Instit	utions		
1.30 pm to 3 pm	Dr.Umesh Ghate	Dr. SupriyaBhalerao	Introduction of Research, its types, its application in Medical field, requisites of researcher.	
3pm to 5.30 pm	Ghate biotech interdis		Information of biotechnology as an interdisciplinary subject, its application in medical field	
15th March	n , Monday			
1.30 to 2.30 pm	Dr. Swati Mohite	Comprehend the learning Pedagogy and the role in learning Skills	Various teaching & learning methodologies. Learning pedagogy & role in learning skills.	
2.30 pm to 4 pm	Dr.Ajit Kolhatkar	Recent Advances in ASU	Present advances & its availability of digitized texts ,softwares like AYUSOFT & SATYAM Ayurveda	
4 pm to 5.30 pm	Dr.Savita Nilakhe Dr.Vedika Sadhale	VadatuSanskritam	Current situation of CORONA, causes, effects, effective management through Lifestyle management as suggested by Ayurved	

16th March	ı, Tuesday		
1.30 to	Dr.Savita	VadatuSanskritam	Sanskrit drama
2.30 pm	Nilakhe		Realization Sanskrit
	Dr.Vedika		as easy language of
	Sadhale		communication
2.30 pm to	Dr.AmolPatil	Yoga Practice and relaxation	Different Yoga
3.30 pm		techniques	postures,
			Suryanamskar
			proper meditation
			techniques.
	D II 1		
3.30 pm to	Dr.VasudhaAs	History Philosophy and	The Unique
4.30pm	utkar	concepts of ASU	preventive &
		Uniqueness of Ayurved,	curative aspect of

		Siddha, Sowa Rigpa, Unani as Compared to other systems of Medicine.	Ayurved compared to other systems of Medicine, holistic approach conveyed.	
4.30 pm to 5.30pm	Dr.SuwarnaSh elar	* AYUSH related Videos (Presentation and discussion)	Exploration to Ayush related documentaries.	
17 th March				
1.30 to 2.30 pm	Dr.Savita Nilakhe Dr.Vedika Sadhale	VadatuSanskritam	Exploration to Sanskrit songs	
2.30 pm to 4 pm	Dr.PallaviKha tawkar	National health status, Goals and Policies	Health promotion & disease prevention	
4 pm to 5.30 pm	Team of HODs (1 st BAMS)	Discussion, Debates, Task giving, Feedback	Student got the motivation through Interaction ,exchange of thoughts between students & the teachers on various topics Indian Medicine System, Career in Ayurvedetc	



PRINCIPAL Bharati Vidyapeeth (Deemed to be University) College of Ayurved Pune-Satara Road, Pune-411 043.

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY) HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL PUNE, DHANKAWADI-43

Oath Ceremony Report Of 37th Interns Batch

Date: 25/03/2021 Timing:3pm to 4.30pm

Oath ceremony was held for 37th Interns Batch (2019-2020) by ICTP department under – ICTP Incharge – Dr. Mrs Nerlekar ICTP Co-ordinator – Dr. Nadgauda ICTP Co-ordinator – Dr.MrsJagtap and Dr Mrs. Koraykar

Total Interns – 94 (Internship completed by 70, Remaining: 24) Attendance – 32(Offline) 38(online) Absent – 8

The oath ceremony notice was put prior, dated 23/3/2021 to the student and staff. On account of COVID-19 pandemic situation only 40 students were permitted to attend the ceremony in person.

The ceremony started with lamp lighting by the Principal. This was followed by the feedback of the posting in charges, namely Dr L Mali, Dr S. Manhas, Dr A. Talathi, Dr J. Patil, Dr S. Manhas, and Dr.R. Shinde. The feedback was given in regards to the following points

- 1) Patient seen with follow up in internship training
- 2) Behavior and Discipline of students
- 3) Case Taking and Processing
- 4) Project report
- 5) Extra ordinary work done by any intern
- 6) Sincerity

The ICTP incharge ,Dr Nerlekar addressed the interns and guided them for their future. She shared her experiences and gave a detail report regarding the 37th interns batch. This was followed by the feedback given by the interns of the 37th batch. Their feedback highlighted the

learning experiences in COVID-19 pandemic situation, learnings from different staff members of each subject, their future plans. A recorded feedback video of an intern was also streamed online.

The event was then followed by the Principal's address where sir boosted students confidence to practice Homoeopathy, he motivated students for research activities, highlighted the importance of post graduate education and improvement in the project work. He appreciated the functioning of the Posting incharges and of the ICTP team.

The Hahnemannian oath was given to the interns by Principal Dr. A.B.Jadhav. The event was concluded by the vote of thanks by Dr Sumitra Jagtap.

The highlight of the ceremony was that for the first time the oath was also streamed online. On account of the pandemic situation, a zoom link was shared to the students where they articipated in the event through digital platform.



Lamp Lightning by The Prinicipal



ICTP Incharge addressing the interns



Feedback By posting Incharges and Interns of 37th Batch



Oath Ceremony



Vote of thanks by Dr Sumitra Jagtap

D. 193- 19. A. Mullor.



BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY) HOMOEOPATHIC MEDICAL COLLEGE, KATRAJ-DHANKAWADI PUNE-43

Report of NSS Regular Activity 2020-21

In this academic year 2020-21 university sanctioned 100 student's strength volunteers our NSS unit. After enrolment of 100 volunteers our college NSS unit has performed following activities.

1. NSS orientation programme:

NSS orientation program was conducted online under the guidance of University NSS Co-Ordinator Dr. A.R. Mhetre and Program Officer Dr. S.S. Manhas on 14th October 2020 in which 100 volunteers from our college participated.

2. Independence day:

On 15th August 2020, college NSS unit celebrated Independence Day was celebrated by paying tributes to the freedom fighters, by conducting online session . All the NSS volunteers attended the program.

3. College Foundation day: 16/8/20

On account of the college, college foundation day was celebrated on the 16th August 2020 Free medical checkup and medication camp was held on this day. 113 patients were checked and the medicines were given free of cost.

4. <u>Gobal hand washing day : Home visits by volunteers under "MY FAMILY</u> <u>MY RESPONSIBILITY" on 15/10/20 organized by NSS ,UNICEF,Higher</u> <u>Education Maharashtra Government .</u>

On this occation volunteers participated in even Quiz competiton and talent hunt video competition .

5. Teachers' day:

On 5th September 2020, NSS volunteers participated in online/offline teachers' day program. On this day,the senior most teachers were felicitated and honoured with a shawl and momento by our Principal Dr.A.B.Jadhav and NSS University Co-ordinater Dr.A.R.Mhetre and NSS Program Officer Dr.Mrs.S.S.Manhas.

6. COVID-19 Awareness program:

Online Webinar was held for awareness on COVID-19 was organized on 10th September 2020 which was attended by 85 NSS volunteers from our NSS unit.

7. Vaccination Awareness :

Vaccination awareness in society by one to one publicity by volunteers around their locality by mobile phones etc from 1st Jan 21 till the date.

- On occasion of the Gobal hand washing day 2020, a state level online orientation program was organized by UNICEF,NSS Higher and Technical Education department GOM, Rotary culb, Western India Football Asso, Center for youth development and activities on 13/10/20.
- Volunteers participated in online for "Prerana The Leadership Program" organized by Shivaji University Kholapur on 11/7/20 -15/7/20.
- 10. International Yoga Day was celebrated with the theme "YOGA @HOME YOGA WITH FAMILY" as well online yoga training and awareness program was organized, a virtual event "Lets make compation contagious" by Bharati Vidyapeeth (DU) parterned with Ministry of AYUSH and Heartfullness Institute.
- 11. One day National Webinar on "GENDER SENSITIZATION" was jointly organized by Higher and Technical Edu dept Govt of Maharashtra, kaviyatri Bahinabai Choudhari North Maharashtra University Jalagaon and UNICEF on 9/7/2020.

- 12. Online workshop on "COVID -19 STIGMA and DISCRIMINATION" on 23/5/20 by NSS and UNICEF was attended by volunteers and Program Officer.
- 13.Orientation of NSS Officials and volunteers on COVID-19 by NSS and UNICEF on 7/5/2020- training in Marathi .
- 14. Maharashtra NSS : strength of Nation and its role in COVID-19 disaster management organized by SPPU (1.) on 2/5/2020 guidance and dialogue with Mr.D.Kartigen Regional Director NSS Pune (2) on 28/4/2020 by Dr.Atul.Salunkhe State NSS Official.
- 15. 23/4/2020 Online Training for NSS volunteers on COVID-19 on Youtube in Marathi by NSS, UNICEF, Higher Technical Edu and Govt of Maharashtra.
- 16. COVID-19 Myths and Facts link was shared for NSS Units PO and volunteers
- 17. Home-made masks were prepared and distributed in family and around for which demo video was provided on 11/4/2020.
- 18. 19/12/2020 Volunteers meeting was organized for further activities in COVID-19 in hospital seminar hall.
- 19. Blood Donation Camp was organized with the help of NGO where 12 male and 5 female volunteers donated the blood

20. Republic Day was celebrated on the college terrace on 26/1/21.

Flankas

Program Officer Dr. S.S. Manhas

Dr. A.B. Jadhav

BP107P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

4 Hours/week

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

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

Recommended Books (Latest Editions)

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

ADVANCED PHARMACOLOGY - I (MPL 102T)

Scope

The subject is designed to strengthen the basic knowledge in the field of pharmacology and to impart recent advances in the drugs used for the treatment of various diseases. In addition, this subject helps the students to understand the concepts of drug action and mechanisms involved

Objectives

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

- Discuss the pathophysiology and pharmacotherapy of certain diseases
- · Explain the mechanism of drug actions at cellular and molecular level
- Understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases

THEORY

60 Hrs

General Pharmacology	1
a. Pharmacokinetics: The dynamics of drug absorption,	H
distribution, biotransformation and elimination. Concepts of linear	
and non-linear compartment models. Significance of Protein	
binding.	
b. Pharmacodynamics: Mechanism of drug action and the	
relationship between drug concentration and effect. Receptors,	
structural and functional families of receptors, quantitation of drug	
receptors interaction and elicited effects.	
Neurotransmission	1
a. General aspects and steps involved in neurotransmission.	H
b. Neurohumoral transmission in autonomic nervous system	
(Detailed study about neurotransmitters- Adrenaline and Acetyl	
choline).	
chonney	
c Neurohumoral transmission in central nervous system (Detailed	
c. Neurohumoral transmission in central nervous system (Detailed	
study about neurotransmitters- histamine, serotonin, dopamine,	
study about neurotransmitters- histamine, serotonin, dopamine, GABA, glutamate and glycine].	
study about neurotransmitters- histamine, serotonin, dopamine,	

Systemic Pharmacology A detailed study on pathophysiology of diseases, mechanism of action, pharmacology and toxicology of existing as well as novel drugs used in the following systems Autonomic Pharmacology Parasympathomimetics and lytics, sympathomimetics and lytics, agents affecting neuromuscular junction

- 3 Central nervous system Pharmacology 12 General and local anesthetics Hrs Sedatives and hypnotics, drugs used to treat anxiety. Depression, psychosis, mania, epilepsy, neurodegenerative diseases. Narcotic and non-narcotic analgesics.
- 4 Cardiovascular Pharmacology 12 Diuretics, antihypertensives, antiischemics, anti- arrhythmics, Hrs drugs for heart failure and hyperlipidemia. Hematinics, coagulants, anticoagulants, fibrinolytics and antiplatelet drugs
- 5 Autocoid Pharmacology 12 The physiological and pathological role of Histamine, Serotonin, Hrs Kinins Prostaglandins Opioid autocoids. Pharmacology of antihistamines, SHT antagonists.

REFEERENCES

- 1. The Pharmacological Basis of Therapeutics, Goodman and Gillman's
- Principles of Pharmacology. The Pathophysiologic basis of drug Therapy by David E Golan, Armen H, Tashjian Jr, Ehrin J, Armstrong, April W, Armstrong, Wolters, Kluwer-Lippincott Williams & Wilkins Publishers.
- 3. Basic and Clinical Pharmacology by B.G Katzung
- 4. Hand book of Clinical Pharmacokinetics by Gibaldi and Prescott.
- Applied biopharmaceutics and Pharmacokinetics by Leon Shargel and Andrew B.C.Yu.
- 6. Graham Smith. Oxford textbook of Clinical Pharmacology.
- 7. Avery Drug Treatment
- 8. Dipiro Pharmacology, Pathophysiological approach.
- 9. Green Pathophysiology for Pharmacists.

PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS - 1 (MPL 103T)

Scope

This subject is designed to impart the knowledge on preclinical evaluation of drugs and recent experimental techniques in the drug discovery and development. The subject content helps the student to understand the maintenance of laboratory animals as per the guidelines, basic knowledge of various in-vitro and in-vivo preclinical evaluation processes

Objectives

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

- 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 handling of experimental animals
- Describe the various newer screening methods involved in the drug discovery process
- Appreciate and correlate the preclinical data to humans

THEORY

60 Hrs

1. Laboratory Animals 12 Common laboratory animals: Description, handling and Hrs applications of different species and strains of animals.

Transgenic animals: Production, maintenance and applications Anaesthesia and euthanasia of experimental animals. Maintenance and breeding of laboratory animals. CPCSEA guidelines to conduct experiments on animals

Good laboratory practice. Bioassay-Principle, scope and limitations and methods

2 Preclinical screening of new substances for the 12 pharmacological activity using in vivo, in vitro, and other Hrs possible animal alternative models.

General principles of preclinical screening. CNS Pharmacology: behavioral and muscle co ordination, CNS stimulants and

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depressants, anxiolytics, anti-psychotics, anti epileptics and nootropics. Drugs for neurodegenerative diseases like Parkinsonism, Alzheimers and multiple sclerosis. Drugs acting on Autonomic Nervous System.

3 Preclinical screening of new substances for the 12 pharmacological activity using in vivo, in vitro, and other Hrs possible animal alternative models.

Respiratory Pharmacology: anti-asthmatics, drugs for COPD and anti allergics. Reproductive Pharmacology: Aphrodisiacs and antifertility agents Analgesics, antiinflammatory and antipyretic agents. Gastrointestinal drugs: anti ulcer, anti -emetic, antidiarrheal and laxatives.

- Preclinical screening of new substances for the 12 pharmacological activity using in vivo, in vitro, and other Hrs possible animal alternative models.
 Cardiovascular Pharmacology: antihypertensives, antiarrythmics, antianginal, antiatherosclerotic agents and diuretics. Drugs for metabolic disorders like anti-diabetic, antidyslipidemic agents. Anti cancer agents. Hepatoprotective screening methods.
- 5 Preclinical screening of new substances for the 12 pharmacological activity using in vivo, in vitro, and other Hrs possible animal alternative models.

limmunomodulators, Immunosuppressants and immunostimulants

General principles of immunoassay: theoretical basis and optimization of immunoassay, heterogeneous and homogenous immunoassay systems. Immunoassay methods evaluation; protocol outline, objectives and preparation. Immunoassay for digoxin and insulin Limitations of animal experimentation and alternate animal experiments.

Extrapolation of in vitro data to preclinical and preclinical to humans

CELLULAR AND MOLECULAR PHARMACOLOGY (MPL 104T)

Scope:

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

Objectives:

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

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

TH	HEORY 60	Hrs
1.	Cell biology Structure and functions of cell and its organelles	12 Hrs
1.	Genome organization. Gene expression and its regulation, importance of siRNA and micro RNA, gene mapping and gene	
	sequencing	
	Cell cycles and its regulation.	
	Cell death- events, regulators, intrinsic and extrinsic pathways of	
	apoptosis.	
	Necrosis and autophagy.	
2	Cell signaling	12
	Intercellular and intracellular signaling pathways.	Hrs
	Classification of receptor family and molecular structure ligand	
	gated ion channels; G-protein coupled receptors, tyrosine kinase	
	receptors and nuclear receptors.	
	Secondary messengers: cyclic AMP, cyclic GMP, calcium ion,	
	inositol 1,4,5-trisphosphate, (IP3), NO, and diacylglycerol. Detailed study of following intracellular signaling pathways: cyclic	
	AMP signaling pathway, mitogen-activated protein kinase (MAPK)	
	signaling, Janus kinase (JAK)/signal transducer and activator of	
	transcription (STAT) signaling pathway.	
	intersection of the state of th	

3	Principles and applications of genomic and proteomic tools	12
	DNA electrophoresis, PCR (reverse transcription and real time),	Hrs
	Gene sequencing, micro array technique, SDS page, ELISA and	
	western blotting, Recombinant DNA technology and gene therapy	
	Basic principles of recombinant DNA technology-Restriction	
	enzymes, various types of vectors. Applications of recombinant	
	DNA technology.	
	Gene therapy- Various types of gene transfer techniques, clinical applications and recent advances in gene therapy.	
	appications and recent advances in gene arerapy.	
4	Pharmacogenomics	12
	Gene mapping and cloning of disease gene.	Hrs
	Genetic variation and its role in health/ pharmacology	
	Polymorphisms affecting drug metabolism Genetic variation in drug transporters	
	Genetic variation in G protein coupled receptors	
	Applications of proteomics science: Genomics, proteomics, metabolomics, functionomics, nutrigenomics	
	Immunotherapeutics	
	Types of immunotherapeutics, humanisation antibody therapy,	
	Immunotherapeutics in clinical practice	
5	a. Cell culture techniques	12
3	Basic equipments used in cell culture lab. Cell culture media,	Hrs
	various types of cell culture, general procedure for cell cultures;	
	isolation of cells, subculture, cryopreservation, characterization of	
	cells and their application.	
	Principles and applications of cell viability assays, glucose uptake	
	assay, Calcium influx assays Principles and applications of flow cytometry	
	rinciples and applications of now cytometry	

b. Biosimilars

REFERENCES:

- 1. The Cell, A Molecular Approach. Geoffrey M Cooper.
- Pharmacogenomics: The Search for Individualized Therapies. Edited by J. Licinio and M -L. Wong
- 3. Handbook of Cell Signaling (Second Edition) Edited by Ralph A. et.al
- 4. Molecular Pharmacology: From DNA to Drug Discovery. John Dickenson et.al
- 5. Basic Cell Culture protocols by Cheril D.Helgason and Cindy L.Miller
- 6. Basic Cell Culture (Practical Approach) by J. M. Davis (Editor)
- 7. Animal Cell Culture: A Practical Approach by John R. Masters (Editor)
- Current porotocols in molecular biology vol I to VI edited by Frederick M.Ausuvel et la.

PHARMACOLOGICAL PRACTICAL - I (MPL 105P)

- Analysis of pharmacopoeial compounds and their formulations by UV Vis spectrophotometer
- Simultaneous estimation of multi component containing formulations by UV spectrophotometry
- 3. Experiments based on HPLC
- 4. Experiments based on Gas Chromatography
- 5. Estimation of riboflavin/quinine sulphate by fluorimetry
- 6. Estimation of sodium potassium by flame photometry

Handling of laboratory animals.

- 1. Various routes of drug administration.
- Techniques of blood sampling, anesthesia and euthanasia of experimental animals.
- 3. Functional observation battery tests (modified Irwin test)
- Evaluation of CNS stimulant, depressant, anxiogenics and anxiolytic, anticonvulsant activity.
- Evaluation of analgesic, anti-inflammatory, local anesthetic, mydriatic and miotic activity.
- 6. Evaluation of diuretic activity.
- 7. Evaluation of antiulcer activity by pylorus ligation method.
- 8. Oral glucose tolerance test.
- Isolation and identification of DNA from various sources (Bacteria, Cauliflower, onion, Goat liver).
- 10. Isolation of RNA from yeast
- 11. Estimation of proteins by Braford Lowry's in biological samples.
- 12. Estimation of RNA/DNA by UV Spectroscopy
- 13. Gene amplification by PCR.
- 14. Protein quantification Western Blotting.
- 15. Enzyme based in-vitro assays (MPO, AChEs, α amylase, α glucosidase).
- 16. Cell viability assays (MTT/Trypan blue/SRB).
- 17. DNA fragmentation assay by agarose gel electrophoresis.
- 18. DNA damage study by Comet assay.
- 19. Apoptosis determination by fluorescent imaging studies.
- Pharmacokinetic studies and data analysis of drugs given by different routes of administration using softwares
- 21. Enzyme inhibition and induction activity
- 22. Extraction of drug from various biological samples and estimation of drugs in biological fluids using different analytical techniques (UV)
- 23. Extraction of drug from various biological samples and estimation of drugs in biological fluids using different analytical techniques (HPLC)

Guidelines for Pharm.D internship

- 1. In the Final year of academic program, each student will be posted to at least four different specialties during the internship period (12 months)on roaster basis.
- 2. Out of the total internship duration of 12 months, 6 months training in General Medicine, two months training each in Pediatrics and O&G shall be made compulsory and evaluation of the training should be done through maintenance of a log book.
- 3. During internship each intern is expected to provide the following services in the ward independently.
 - Ward round participation
 - Treatment chart review
 - Medication history interview
 - Drugs and poison information
 - Detection and management of Adverse drug reactions
 - Patient counseling
 - Therapeutic interventions
- 4. Each student is required to maintain the log book of services provided on daily basis.
- 5. The internship work log book should be signed by a preceptor (Teacher Practitioner) on weekly basis and provide feedback to the intern.
- 6. The internship work of the student should be assessed by testing the knowledge, skills and attitude during and also at the end of internship.
- 7. The evaluation of satisfactory completion of the internship is done based on
 - Proficiency of knowledge
 - Competency
 - Responsibility and punctuality
 - Involvement in patient care.
 - Team behavior
 - Initiative and participation in active discussions and research.
- 8. Evaluation Criterion

Intern's performance is evaluated using the following scoring system

Poor	Fair	Below Average	Average	Above average	Excellent
0	1	2	3	4	5

A score of 3 and above represents satisfactory completion of internship for the issue of internship completion certificate.

9. However, if the candidates work is not satisfactory & the scoring is less than 3 he/she has to continue the internship to the satisfaction of the Preceptors.

CERTIFICATE OF INTERNSHIP

(on the institution letter head)

This is to certify that Mr/Ms

of _____ [Institution name and address] has successfully completed the Internship in the following units/departments as prescribed under regulation 16 and Appendix C of Pharm D Regulations 2008.

Department	Date		Total duration [in months]
	From	То	
Medicine [Six Months compulsory]			
	Any 3 of the	following	
Surgery			
Paediatrics			
OB &G			
Psychiatry			
Skin and VD			
Orthopaedics			

Preceptor

Head of the Institution

Seal of the Institution

Second year

2.1 PATHOPHYSIOLOGY (THEORY)

Theory: 3 Hrs. /Week

- 1. Scope of the Subject: This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic Pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge of its application in other subject of pharmacy.
- 2. Objectives of the Subject : Upon completion of the subject student shall be able to a. describe the etiology and pathogenesis of the selected disease states;
 - b. name the signs and symptoms of the diseases; and
 - b. name the signs and symptoms of the diseases; an
 - c. mention the complications of the diseases.

Text books (Theory)

- a. Pathologic basis of disease by- Cotran, Kumar, Robbins
- b. Text book of Pathology- Harsh Mohan
- c. Text book of Pathology- Y.M. Bhinde

Reference books (Theory)

a. Clinical Pharmacy and Therapeutics; Second edition; Roger Walker; Churchill Livingstone publication

3. Detailed syllabus and lecture wise schedule :

Chapter

1 **Basic principles of cell injury and Adaptation**

- a) Causes, Pathogenesis and morphology of cell injury
- b) Abnormalities in lipoproteinaemia, glycogen infiltration and glycogen infiltration and glycogen infiltration and glycogen storage diseases

2 Inflammation

- a) Pathogenesis of acute inflammation, Chemical mediators in inflammation, Types of chronic inflammation
- b) Repairs of wounds in the skin, factors influencing healing of wounds

3 **Diseases of Immunity**

- a) Introduction to Tand B cells
- b) MHC proteins or transplantation antigens
- c) Immune tolerance
 - Hypersensitivity

Hypersensitivity type I, II, III, IV, Biological significance, Allergy due to food, chemicals and drugs

- Autoimmunity

Criteria for autoimmunity, Classifications of autoimmune diseases in man, mechanism of autoimmunity, Transplantation and immunologic tolerance, allograft rejections, transplantation antigens, mechanism of rejection of allograft.

- Acquired immune deficiency syndrome (AIDS)

- Amylodosis
- 4 **Cancer:** differences between benign and malignant tumors, Histological diagnosis of malignancy, invasions and metastasis, patterns of spread, disturbances of growth of cells, classification of tumors, general biology of tumors, spread of malignant tumors, etiology and pathogenesis of cancer.
- 5 Types of shock, mechanisms, stages and management
- 6 Biological effects of radiation
- 7 Environmental and nutritional diseases
 - i) Air pollution and smoking- SO2,NO, NO2, and CO
 - ii) Protein calorie malnutrition, vitamins, obesity, pathogenesis of starvation.
- 8 Pathophysiology of common diseases
 - a. Parkinsonism
 - b. Schizophrenia
 - c. Depression and mania
 - d. Hypertension,
 - e. Stroke (ischaemic and hemorrhage)
 - f. Angina, CCF, Atherosclerosis, Myocardial infarction
 - g. Diabetes Mellitus
 - h. Peptic ulcer and inflammatory bowel diseases
 - i. Cirrhosis and Alcoholic liver diseases
 - j. Acute and chronic renal failure
 - k. Asthma and chronic obstructive airway diseases
- 9 Infectious diseases :

Sexually transmitted diseases (HIV,Syphilis,Gonorrhea), Urinary tract infections, Pneumonia, Typhoid, Tuberculosis, Leprosy, Malaria Dysentery (bacterial and amoebic), Hepatitis- infective hepatitis.

4. Assignments :

Title of the Experiment

- 1 Chemical Mediators of inflammation
- 2 Drug Hypersensitivity
- 3 Cigarette smoking & its ill effects
- 4 Biological Effects of Radiation
- 5 Etiology and hazards of obesity
- 6 Complications of diabetes
- 7 Diagnosis of cancer
- 8 Disorders of vitamins
- 9 Methods in Pathology-Laboratory values of clinical significance
- 10 Pathophysiology of Dengue Hemorrhagic Fever (DHF)

Format of the assignment

- 1 Minimum & Maximum number of pages.
- 2. Reference(s) shall be included at the end.
- 3. Assignment can be a combined presentation at the end of the academic year
- 4. It shall be computer draft copy.
- 5. Name and signature of the student
- 6. Time allocated for presentation may be 8+2 Min.

2.2 PHARMACEUTICAL MICROBIOLOGY (THEORY)

Theory: 3 Hrs. /Week

1. Scope of the Subject: Microbiology has always been an essential component of pharmacy curriculum. This is because of the relevance of microbiology to pharmaceutical sciences and more specifically to pharmaceutical industry. Pharmaceutical biotechnology is the logical extension of pharmaceutical microbiology, which is expected to change the complete drug product scenario in the future.

This course deals with the various aspects of microorganisms, its classification, morphology, laboratory cultivation identification and maintenance. Its also discusses with sterilization of pharmaceutical products, equipment, media etc. The course further discusses the immunological preparations, diseases its transmission, diagnosis, control and immunological tests.

2. Objectives of the Subject :

Upon completion of the subject student shall be able to –

- a. know the anatomy, identification, growth factors and sterilization of microorganisms;
- b. know the mode of transmission of disease causing microorganism, symptoms of disease, and treatment aspect;
- c. do estimation of RNA and DNA and there by identifying the source;
- d. do cultivation and identification of the microorganisms in the laboratory;
- e. do identification of diseases by performing the diagnostic tests; and
- f. appreciate the behavior of motility and behavioral characteristics of microorganisms.

Text books (Theory)

- a. Vanitha Kale and Kishor Bhusari " Applied Microbiology " Himalaya Publishing house Mumbai.
- b. Mary Louis Turgeon "Immunology and Serology in Laboratory Medicines" 2nd edition, 1996 Mosby- Year book inc St. Louis Missouri 63146.
- c. Harsh Mohan, "Text book of Pathology" 3rd edition, 1998, B-3 Ansari road Darya ganj N. Delhi.

Reference books (Theory)

- a. Prescot L.M., Jarley G.P Klein D.A "Microbiology" 2nd- edition Mc Graw Hill Company Inc
- b. Rawlins E.A."Bentley's Text Book of Pharmaceutics" B ailliere Tindals 24-28 London 1988
- c. Forbisher "Fundamentals of Microbiology" Philidelphia W.B. Saunders.
- d. Prescott L.M. Jarley G.P., Klein.D.A. "Microbiology."2nd edition WMC Brown Publishers, Oxford. 1993
- e. War Roitt, Jonathan Brostoff, David male, "Immunology"3rd edition 1996, Mosbyyear book Europe Ltd, London.
- f. Pharmacopoeia of India, Govt of India, 1996.

3. Detailed syllabus and lecture wise schedule :

Title of the topic

- 1 Introduction to the science of microbiology. Major divisions of microbial world and Relationship among them.
- 2 Different methods of classification of microbes and study of Bacteria, Fungi, virus, Rickettsiae, Spirochetes.
- 3 Nutritional requirements, growth and cultivation of bacteria and virus. Study of different important media required for the growth of aerobic and anaerobic bacteria & fungi. Differential media, enriched media and selective media, maintenance of lab cultures.
- 4 Different methods used in isolation and identification of bacteria with emphasis to different staining techniques and biochemical reactions. Counting of bacteria -Total and Viable counting techniques.
- 5 Detailed study of different methods of sterilization including their merits and demerits. Sterilization methods for all pharmaceutical products. Detailed study of sterility testing of different pharmaceutical preparations. Brief information on Validation.
- 6 Disinfectants- Study of disinfectants, antiseptics, fungicidal and virucidal agents factors affecting their activation and mechanism of action. Evaluation of bactericidal, bacteristatic, , virucidal activities, evaluation of preservatives in pharmaceutical preparations.
- 7 Immunology- Immunity, Definition, Classification, General principles of natural immunity, Phagocytosis, acquired immunity(active and passive). Antigens, chemical nature of antigens structure and formation of Antibodies, Antigen-Antibody reactions. Bacterial exotoxins and endotoxins. Significance of toxoids in active immunity, Immunization programme, and importance of booster dose.
- 8 Diagnostic tests : Schick's Test, Elisa test, Western Blot test, Southern Blot PCR Widal, QBC, Mantaux Peripheral smear. Study of malarial parasite.
- 9 Microbial culture sensitivity Testing: Interpretation of results Principles and methods of different microbiological assays, microbiological assay of Penicillin, Streptomycin and vitamin B_2 and B_{12} . Standardisation of vaccines and sera.
- 10 Study of infectious diseases: Typhoid, Tuberculosis, Malaria, Cholera, Hepatitis, Meningitis, Syphilis & Gonorrhea and HIV.

2.2 PHARMACEUTICAL MICROBIOLOGY (PRACTICAL)

Practical : 3 Hrs./Week

Title of the Experiment:

- 1 Study of apparatus used in experimental microbiology*.
- 2 Sterilisation of glass ware's. Preparation of media and sterilisation.*
- 3 Staining techniques Simple staining ; Gram's staining ; Negative staining**
- 4 Study of motility characters*.
- 5 Enumeration of micro-organisms (Total and Viable)*
- 6 Study of the methods of isolation of pure culture.*
- 7 Bio chemical testing for the identification of micro*-organisms.

- 8 Cultural sensitivity testing for some micro-organisms.*
- 9 Sterility testing for powders and liquids.*
- 10 Determination of minimum inhibitory concentration.*
- 11 Microbiological assay of antibiotics by cup plate method.*
- 12 Microbiological assay of vitamins by Turbidometric method**
- 13 Determination of RWC.**
- 14 Diagnostic tests for some common diseases, Widal, malarial parasite.**
- * Indicate minor experiment & ** indicate major experiment

Assignments:

- 1 Visit to some pathological laboratories & study the activities and equipment/instruments used and reporting the same.
- 2. Visit to milk dairies (Pasturization) and microbial laboratories(other sterization methods) & study the activities and equipment/instruments used and reporting the same.
- 3. Library assignments
 - a. Report of recent microbial techniques developed in diagnosing some common diseases.
 - b. Latest advancement developed in identifying, cultivating & handling of microorganisms.

Format of the assignment:

- 1. Minimum & Maximum number of pages.
- 2. It shall be computer draft copy.
- 3. Reference(s) shall be included at the end.
- 4. Name and signature of the student.
- 5. Assignment can be a combined presentation at the end of the academic year.
- 6. Time allocated for presentation may be 8+2 Min.

Scheme of Practical Examination:

	Sessionals	Annual	
Synopsis	05	15	
Major Experiment	10	25	
Minor Experiment	03	15	
Viva	02	15	
Max Marks	20	70	
Duration	03hrs	04hrs	

Note : Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

2.3 PHARMACOGNOSY & PHYTOPHARMACEUTICALS (THEORY)

Theory: 3 Hrs. /Week

1. Scope and objectives: This subject has been introduced for the pharmacy course in order to make the student aware of medicinal uses of various naturally occurring drugs its history, sources, distribution, method of cultivation, active constituents, medicinal uses, identification tests, preservation methods, substitutes and adulterants.

2. Upon completion of the course student shall be able to:

- a. under stand the basic principles of cultivation, collection and storage of crude drugs;
- b. know the source, active constituents and uses of crude drugs; and
- c. appreciate the applications of primary and secondary metabolites of the plant.

3. Course materials:

Text books

- a. Pharmacognosy by G.E. Trease & W.C.Evans.
- b. Pharmacognosy by C.K.Kokate,Gokhale & A.C.Purohit.

Reference books

- a. Pharmacognosy by Brady &Tyler.E.
- b. Pharmacognosy by T.E.Wallis.
- c. Pharmacognosy by C.S. Shah & Qadery.
- d. Pharmacognosy by M.A. Iyengar.

4. Lecture wise programme:

Topics

- 1 Introduction.
- 2 Definition, history and scope of Pharmacognosy.
- 3 Classification of crude drugs.
- 4 Cultivation, collection, processing and storage of crude drugs.
- 5 Detailed method of cultivation of crude drugs.
- 6 Study of cell wall constituents and cell inclusions.
- 7 Microscopical and powder Microscopical study of crude drugs.
- 8 Study of natural pesticides.
- 9 Detailed study of various cell constituents.
- 10 Carbohydrates and related products.
- 11 Detailed study carbohydrates containing drugs.(11 drugs)
- 12 Definition sources, method extraction, chemistry and method of analysis of lipids.
- 13 Detailed study of oils.
- 14 Definition, classification, chemistry and method of analysis of protein.
- 15 Study of plants fibers used in surgical dressings and related products.
- 16 Different methods of adulteration of crude drugs.

2.3 PHARMACOGNOSY & PHYTOPHARMACEUTICALS (PRACTICAL)

Practical: 3 Hrs./Week

General Requirements: Laboratory Napkin, Observation Book 150 pages Zero brush, Needle, Blade, Match box.

List of experiments:

- 1 Introduction of Pharmacognosy laboratory and experiments.
- 2 Study of cell wall constituents and cell inclusions.
- 3 Macro, powder and microscopic study of Datura.
- 4 Macro, powder and microscopic study of Senna.
- 5 Macro, powder and microscopic study of Cassia.cinnamon.
- 6 Macro, powder and microscopic study of Cinchona.
- 7 Macro, powder and microscopic study of Ephedra.
- 8 Macro, powder and microscopic study of Quassia.
- 9 Macro, powder and microscopic study of Clove
- 10 Macro, powder and microscopic study of Fennel.
- 11 Macro, powder and microscopic study of Coriander.
- 12 Macro, powder and microscopic study of Isapgol.
- 13 Macro, powder and microscopic study of Nux vomica.
- 14 Macro, powder and microscopic study of Rauwolfia.
- 15 Macro, powder and microscopic study of Liquorice.
- 16 Macro, powder and microscopic study of Ginger.
- 17 Macro, powder and microscopic study of Podophyllum.
- 18 Determination of Iodine value.
- 19 Determination of Saponification value and unsaponifiable matter.
- 20 Determination of ester value.
- 21 Determination of Acid value.
- 22 Chemical tests for Acacia.
- 23 Chemical tests for Tragacanth.
- 24 Chemical tests for Agar.
- 25 Chemical tests for Starch.
- 26 Chemical tests for Lipids.(castor oil, sesame oil, shark liver oil, bees wax)
- 27 Chemical tests for Gelatin.

Scheme of Practical Examination:

	Sessionals	Annual	
Identification	04	10	
Synopsis	04	10	
Major Experiment	07	20	
Minor Experiment	03	15	
Viva	02	15	
Max Marks	20	70	
Duration	03hrs	04hrs	

Note : Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance.

2.4 PHARMACOLOGY – I (THEORY)

Theory: 3 Hrs. /Week

- 1. Scope of the Subject: This subject will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. In this subject, apart from general pharmacology, drugs acting on autonomic nervous system, cardiovascular system, central nervous system, blood and blood forming agents and renal system will be taught. In addition to theoretical knowledge, the basic practical knowledge relevant to therapeutics will be imparted.
- 2. Objectives of the Subject : Upon completion of the subject student shall be able to (Know, do, appreciate)
 - a. understand the pharmacological aspects of drugs falling under the above mentioned chapters;
 - b. handle and carry out the animal experiments;
 - c. appreciate the importance of pharmacology subject as a basis of therapeutics; and
 - d. correlate and apply the knowledge therapeutically.

Text books (Theory) (Author, Title, Edition, Publication Place, Publisher, Year of Publication)

- a. Tripathi, K. D. Essentials of medical pharmacology. 4th Ed, 1999. Publisher: Jaypee, Delhi.
- b. Satoskar, R.S. and Bhadarkar, S.D. Pharmacology and pharmacotherapeutics. 16th edition (single volume), 1999. Publisher: Popular, Dubai.
- c. Rang, H.P. & Dale, M.M. Pharmacology. 4th edition, 1999. Publisher: Churchill Living stone.

Reference books (Theory)(Author, Title, Edition, Publication Place, Publisher, Publication Year)

- a. Goodman Gilman, A., Rall, T.W., Nies, A.I.S. and Taylor, P. Goodman and Gilman's The pharmacological Basis of therapeutics. 9th Ed, 1996. Publisher Mc Graw Hill, Pergamon press.
- b. Craig, C.R.&Stitzel, R.E. Modern Pharmacology. Latest edition. Publisher: Little Brown.Co
- c. Katzung, B.G. Basic and clinical pharmacology. Latest edition. Publisher: Prentice Hall, Int.
- d. Shargel and Leon. Applied Biopharmaceutics and pharmacokinetics. Latest edition. Publisher: Prentice Hall, London.

Text books (Practical) :

Kulkarni, S. K. and Dandia, P. C. Hand book of experimental pharmacology. Latest edition, Publisher: Vallab, Delhi.

Reference books (Practical)

a. Macleod, L.J. Pharmacological experiments on intact preparations. Latest edition, Publisher: Churchill livingstone.

- b. Macleod, L.J. Pharmacological experiments on isolated preparations. Latest edition, Publisher: Churchill livingstone.
- c. Ghosh, M.N. Fundamentals of experimental pharmacology. Latest edition, Publisher: Scientific book agency, Kolkata.
- d. Ian Kitchen. Textbook of in vitro practical pharmacology. Latest edition, Publisher: Black well Scientific.

3. Detailed syllabus and lecture wise schedule :

Title of the topic

1. General Pharmacology

- a) Introduction, definitions and scope of pharmacology
- b) Routes of administration of drugs
- c) Pharmacokinetics (absorption, distribution, metabolism and excretion)
- d) Pharmacodynamics
- e) Factors modifying drug effects
- f) Drug toxicity Acute, sub- acute and chronic toxicity.
- g) Pre-clinical evaluations
- h) Drug interactions

Note: The term Pharmacology used here refers to the classification, mechanism of action, pharmacokinetics, pharmacodynamics, adverse effects, contraindications, Therapeutic uses, interactions and dose and route of administration.

2. Pharmacology of drugs acting on ANS

- a) Adrenergic and antiadrenergic drugs
- b) Cholinergic and anticholinergic drugs
- c) Neuromuscular blockers
- d) Mydriactics and miotics
- e) Drugs used in myasthenia gravis
- f) Drugs used in Parkinsonism

3. Pharmacology of drugs acting on cardiovascular system

- a) Antihypertensives
- b) Anti-anginal drugs
- c) Anti-arrhythmic drugs
- d) Drugs used for therapy of Congestive Heart Failure
- e) Drugs used for hyperlipidaemias

4. Pharmacology of drugs acting on Central Nervous System

- a) General anesthetics
- b) Sedatives and hypnotics
- c) Anticonvulsants
- d) Analgesic and anti-inflammatory agents
- e) Psychotropic drugs
- f) Alcohol and methyl alcohol
- g) CNS stimulants and cognition enhancers
- h) Pharmacology of local anaesthetics

5. Pharmacology of Drugs acting on Respiratory tract

- a) Bronchodilators
- b) Mucolytics
- c) Expectorants
- d) Antitussives
- e) NasalDecongestants

6. Pharmacology of Hormones and Hormone antagonists

- a) Thyroid and Antithyroid drugs
- b) Insulin, Insulin analogues and oral hypoglycemic agents
- c) Sex hormones and oral contraceptives
- d) Oxytocin and other stimulants and relaxants

7. Pharmacology of autocoids and their antagonists

a) Histamines and Antihistaminics

- b) 5-Hydroxytryptamine and its antagonists
- c) Lipid derived autocoids and platelet activating factor

2.5 COMMUNITY PHARMACY (THEORY)

Theory: 2 Hrs. /Week

- 1. Scope: In the changing scenario of pharmacy practice in India, Community Pharmacists are expected to offer various pharmaceutical care services. In order to meet this demand, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling, health screening services for improved patient care in the community set up.
- 2. Objectives: Upon completion of the course, the student shall be able to
 - a. know pharmaceutical care services; s;
 - b. know the business and professional practice management skills in community nity pharmacies;
 - c. do patient counselling & provide health screening services to public in community nity pharmacy;
 - d. respond to minor ailments and provide appropriate medication; on;
 - e. show empathy and sympathy to patients; and id
 - f. appreciate the concept of Rational drug therapy.

Text Books:

- a. Health Education and Community Pharmacy by N.S.Parmar.
- b. WHO consultative group report.
- c. Drug store & Business management by Mohammed Ali & Jyoti.

Reference books:

- a. Handbook of pharmacy health care.Edt. Robin J Harman. The Pharmaceutical press.
- b. Comprehensive Pharmacy Review Edt. Leon Shargel. Lippincott Williams & Wilkins.

Special requirements:

- 1. Either the college is having model community pharmacy (meeting the schedule N requirement) or sign MoU with at least 4-5 community pharmacies nearby to the college for training the students on dispensing and counselling activities.
- 2. Special equipments like B.P apparatus, Glucometer, Peak flow meter, and apparatus for cholesterol estimation.

3. Scheme of evaluation (80 Marks)

- 1. Synopsis
 10

 2. Major Experiment
 30

 (Counselling of patients with specific diseases emphasis should be given on Counselling introduction, content, process and conclusion)
 30

 3. Minor Experiment(Ability to measure B.P/ CBG / Lung function)
 15
- 4. Prescription Analysis (Analyzing the prescriptions for probable drug interaction and ability to tell the management) 15
- 5. Viva Voce 10

4. Lecture wise programme :

Topics

- 1 Definition, scope, of community pharmacy Roles and responsibilities of Community pharmacist
- 2 Community Pharmacy Management
 - a) Selection of site, Space layout, and designen
 - b) Staff, Materials- coding, stocking
 - c) Legal requirementss
 - d) Maintenance of various registers s
 - e) Use of Computers: Business and health care soft wares es
- **3 Prescriptions** parts of prescription, legality & identification of medication related ted problems like drug interactions.s.
- Inventory control in community pharmacycy Definition, various methods of Inventory Control of ABC, VED, EOQ, Lead time, safety stock k
- 5 Pharmaceutical care 2 Definition and Principles of Pharmaceutical care. e.
- 6 Patient counselling Definition, outcomes, various stages, barriers, Strategies to overcome barriers Patient information leaflets- content, design, & layouts, advisory labels
- 7 Patient medication adherence: Definition, Factors affecting medication adherence, role of pharmacist ist in improving the adherence.
- 8 Health screening services s Definition, importance, methods for screeningng Blood pressure/ blood sugar/ lung function n and Cholesterol testingg
- 9 OTC Medication- Definition, OTC medication list & Counselling ng

10 Health Education

WHO Definition of health, and health promotion, care for children, pregnant & breast east feeding women, and geriatric patients. s.

Commonly occurring Communicable Diseases, causative agents, ts,

Clinical presentations and prevention of communicable diseases ses – Tuberculosis, Hepatitis, Typhoid, Amoebiasis, Malaria, Leprosy, y,

Syphilis, Gonorrhea and AIDSS

Balance diet, and treatment & prevention of deficiency disordersers Family planning – role of pharmacist st

11 Responding to symptoms of minor ailments ts

Relevant pathophysiology, common drug therapy to, to,

Pain, GI disturbances (Nausea, Vomiting, Dyspepsia, diarrhea, constipation), Pyrexia, kia, Opthalmic symptoms, worms infestations. s.

- 12 Essential Drugs concept and Rational Drug Therapypy Role of community pharmacistst
- **13** Code of ethics for community pharmacists

2.6 PHARMACOTHERAPEUTICS - I (THEORY)

Theory: 3 Hrs. /Week

- 1. Scope of the Subject: This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.
- 2. Objectives: At completion of this subject it is expected that students will be able to understand
 - a. the pathophysiology of selected disease states and the rationale for drug therapy; apy;
 - b. the therapeutic approach to management of these diseases; es;
 - c. the controversies in drug therapy; *r*;
 - d. the importance of preparation of individualised therapeutic plans based on diagnosis; osis;
 - e. needs to identify the patient-specific parameters relevant in initiating drug therapy, apy, and monitoring therapy (including alternatives, time-course of clinical and laboratory tory indices of therapeutic response and adverse effects);ts);
 - f. describe the pathophysiology of selected disease states and explain the rationale for drug therapy;
 - g. summarise the therapeutic approach to management of these diseases including ling reference to the latest available evidence pe;
 - h. discuss the controversies in drug therapy; y;
 - i. discuss the preparation of individualised therapeutic plans based on diagnosis; and and
 - j. identify the patient-specific parameters relevant in initiating drug therapy, and and monitoring therapy (including alternatives, time-course of clinical and laboratory tory indices of therapeutic response and adverse effects).s).

Text Books

- a. Clinical Pharmacy and Therapeutics Roger and Walker, Churchill Livingstone publication.
- b. Pharmacotherapy: A Pathophysiologic approach Joseph T. Dipiro et al. Appleton & Lange.

Reference Books

- a. Pathologic basis of disease Robins SL, W.B.Saunders publication.
- b. Pathology and therapeutics for Pharmacists: A Basis for Clinical Pharmacy Practice Green and Harris, Chapman and Hall publication.
- c. Clinical Pharmacy and Therapeutics Eric T. Herfindal, Williams and Wilkins Publication.
- d. Applied Therapeutics: The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA
- e. Avery's Drug Treatment, 4th Edn, 1997, Adis International Limited.
- f. Relevant review articles from recent medical and pharmaceutical literature.

3. Detailed syllabus and lecture wise schedule :

Etiopathogenesis and pharmacotherapy of diseases associated with following systems/ diseases

Title of the topic

- 1 Cardiovascular system: Hypertension, Congestive cardiac failure, ilure, Angina Pectoris, Myocardial infarction, , Hyperlipidaemias , ias , Electrophysiology of heart and Arrhythmias
- 2 Respiratory system : Introduction to Pulmonary function test, Asthma, thma, Chronic obstructive airways disease, Drug induced pulmonary diseases eases Endocrine system : Diabetes, Thyroid diseases, Oral contraceptives, tives, Hormone replacement therapy, Osteoporosispsis
- General prescribing guidelines for for
 a. Paediatric patients
 b. Geriatric patients
 - c. Pregnancy and breast feeding 1g
- 4 **Ophthalmology:** Glaucoma, Conjunctivitis- viral & bacterialterial
- 5 Introduction to rational drug use se Definition, Role of pharmacist Essential drug concept Rational drug drug formulationss

2.6 PHARMACOTHERAPEUTICS - I (PRACTICAL)

Practical : 3 Hrs./Week

Practicals :

Hospital postings in various departments designed to complement the lectures by providing practical clinical discussion; attending ward rounds; follow up the progress and changes made in drug therapy in allotted patients; case presentation upon discharge. Students are required to maintain a record of cases presented and the same should be submitted at the end of the course for evaluation. A minimum of 20 cases should be presented and recorded covering most common diseases.

Assignments :

Students are required to submit written assignments on the topics given to them. Topics allotted should cover recent developments in drug therapy of various diseases. A minimum of THREE assignments [1500 - 2000 words] should be submitted for evaluation.

Format of the assignment:

- 1. Minimum & Maximum number of pages.
- 2. Reference(s) shall be included at the end.
- 3. Assignment can be a combined presentation at the end of the academic year.
- 4. It shall be computer draft copy.
- 5. Name and signature of the student.
- 6. Time allocated for presentation may be 8+2 Min.

Scheme of Practical Examination:

	Sessionals	Annual
Synopsis	05	15
Major Experiment	10	25
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03hrs	04hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

Third Year

3.1 PHARMACOLOGY – II (THEORY)

Theory: 3 Hrs. /Week

1. Scope of the Subject: This subject will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. In this subject, drugs acting on autacoids, respiratory system, GIT, immune system and hormones, and pharmacology of autocoids and hormones will be concentrated. In addition, pharmacology of chemotherapeutic agents, vitamines, essential minerals and principles of toxicology are also taught. In addition to theoretical knowledge, the basic practical knowledge relevant to therapeutics will be imparted.

2. Objectives of the Subject Upon completion of the subject student shall be able to:

- a. understand the pharmacological aspects of drugs falling under the above mentioned chapters,
- b. carry out the animal experiments confidently,
- c. appreciate the importance of pharmacology subject as a basis of therapeutics, and
- d. correlate and apply the knowledge therapeutically.

Text books (Theory)

- a. Tripathi, K. D. Essentials of medical pharmacology. 4th edition, 1999. Publisher: Jaypee, Delhi.
- b. Satoskar, R.S. and Bhadarkar, S.D. Pharmacology and pharmacotherapeutics. 16th edition (single volume), 1999. Publisher: Popular, Dubai.
- c. Rang, H.P. and Dale, M.M. Pharmacology. 4th edition, 1999. Publisher: Churchill Living stone.

Reference books (Theory)

- a. Goodman Gilman, A., Rall, T.W., Nies, A.I.S. and Taylor, P. Goodman and Gilman's The pharmacological Basis of therapeutics. 9th edition, 1996. Publisher: Mc Graw Hill, Pergamon press.
- b. Craig, C.R. and Stitzel, R.E. Modern Pharmacology. Latest edition. Publisher: Little Brown and company.
- c. Katzung, B.G. Basic and clinical pharmacology. Latest edition. Publisher: Prentice Hall, International.
- d. Gupta, P.K. and Salunkhe, D.K. Modern Toxicology. Volume I, II and III. Latest edition. Publisher: B.V. Gupta, Metropolitan Book Co. (p) Ltd, New Delhi.

Text books (Practical)

Kulkarni, S. K. and Dandia, P. C. Hand book of experimental pharmacology. Latest edition, Publisher: Vallab, Delhi.

Reference books (Practical) :

- a. Macleod, L.J. Pharmacological experiments on intact preparations. Latest edition, Publisher: Churchill livingstone.
- b. Macleod, L.J. Pharmacological experiments on isolated preparations. Latest edition, Publisher: Churchill livingstone.
- c. Ghosh, M.N. Fundamentals of experimental pharmacology. Latest edition, Publisher: Scientific book agency, Kolkata.
- d. Ian Kitchen. Textbook of in vitro practical pharmacology. Latest edition, Publisher: Black well Scientific.

3. Detailed syllabus and lecture wise schedule:

Title of the topic

- 1. Pharmacology of Drugs acting on Blood and blood forming agents
 - a) Anticoagulants
 - b) Thrombolytics and antiplatelet agents
 - c) Haemopoietics and plasma expanders

2. Pharmacology of drugs acting on Renal System

- a) Diuretics
- b) Antidiuretics

3. Chemotherapy

- a) Introduction
- b) Sulfonamides and co-trimoxazole
- c) Penicillins and Cephalosporins
- d) Tetracyclins and Chloramphenicol
- e) Macrolides, Aminoglycosides, Polyene & Polypeptide antibiotics
- f) Quinolines and Fluroquinolines
- g) Antifungal antibiotics
- h) Antiviral agents
- i) Chemotherapy of tuberculosis and leprosy
- j) Chemotherapy of Malaria
- k) Chemotherapy of protozoal infections (amoebiasis, Giardiasis)
- 1) Pharmacology of Anthelmintic drugs
- m) Chemotherapy of cancer (Neoplasms)

4 Immunopharmacology

Pharmacology of immunosuppressants and stimulants

5. **Principles of Animal toxicology**

Acute, sub acute and chronic toxicity

- 6. The dynamic cell: The structures and functions of the components of the cell
 - a) Cell and macromolecules: Cellular classification, subcellular organelles, macromolecules, large macromolecular assemblies
 - b) Chromosome structure: Pro and eukaryotic chromosome structures, chromatin structure, genome complexity, the flow of genetic information.
 - c) DNA replication: General, bacterial and eukaryotic DNA replication.
 - d) The cell cycle: Restriction point, cell cycle regulators and modifiers.
 - e) Cell signaling: Communication between cells and their environment, ion-channels, signal transduction pathways (MAP kinase, P38 kinase, JNK, Ras and PI3-kinase pathways, biosensors.

The Gene: Genome structure and function:

- a) Gene structure: Organization and elucidation of genetic code.
- b) Gene expression: Expression systems (pro and eukaryotic), genetic elements that control gene expression (nucleosomes, histones, acetylation, HDACS, DNA binding protein families.
- c) Transcription and Transcription factors: Basic principles of transcription in pro and eukaryotes. Transcription factors that regulate transcription in pro and eukaryotes.

RNA processing: rRNA, tRNA and mRNA processing.

Protein synthesis: Mechanisms of protein synthesis, initiation in eukaryotes, translation control and post-translation events

Altered gene functions: Mutations, deletions, amplifications, LOH, traslocations, trinucleotide repeats and other genetic abnormalities. Oncogenes and tumor suppressor genes.

The gene sequencing, mapping and cloning of human disease genes. Introduction to gene therapy and targeting.

Recombinant DNA technology: principles. Processes (gene transfer technology) and applications

Books:

- 1 Molecular Biology of the Cell by Alberts B., Bray, D., Lewis, J., Raff M., Roberts, K and Watson, JD, 3rd edition.
- 2 Molecular Cell Biology By Lodish, H., Baltimore, D., Berk, A et al., 5th edition.
- 3 Molecular Biology by Turner, PC., McLennan, AG., Bates, AD and White MRH 2nd edition.
- 4 Genes VIII by Lewin, B., (2004)
- 5 Pharmaceutical Biotechnology, by Crommelin, DJA and Sindelar RD (1997)
- 6 Recombinant DNA by Watson, JD., Gilman, M., et al., (1996)
- 7 Biopharmaceutical: Biochemistry and Biotechnology by Walsh, G., (1998)

3.1 PHARMACOLOGY – II (PRACTICAL)

Practical: 3 Hrs./Week

List of Experiments:

- 1. Study of laboratory animals and their handling (a. Frogs, b. Mice, c. Rats, d. Guinea pigs, e. Rabbits).
- 2. Study of physiological salt solutions used in experimental pharmacology.
- 3. Study of laboratory appliances used in experimental pharmacology.
- 4. Study of use of anesthetics in laboratory animals.
- 5. To record the dose response curve of Ach using isolated ileum/rectus abdominis muscle preparation.
- 6. To carry out bioassay of Ach using isolated ileum/rectus abdominis muscle preparation by interpolation method.
- 7. To carry out bioassay of Ach using isolated ileum/rectus abdominis muscle preparation by three point method.
- 8. To record the dose response curve of Histamine using isolated guinea-pig ileum preparation.
- 9. Study of agonistic and antagonistic effects of drugs using isolated guinea-pig ileum preparation.
- 10. To carry out bioassay of Histamine using isolated guinea-pig ileum preparation by interpolation method.
- 11. To carry out bioassay of Histamine using guinea-pig ileum preparation by three point method.
- 12. To study the routes of administration of drugs in animals (Rats, Mice, Rabbits).
- 13. Study of theory, principle, procedure involved and interpretation of given results for the following experiments:
 - a) Analgesic property of drug using analgesiometer.
 - b) Antiinflammatory effect of drugs using rat-paw edema method.
 - c) Anticonvulsant activity of drugs using maximal electroshock and pentylene tetrazole methods.
 - d) Antidepressant activity of drugs using pole climbing apparatus and pentobarbitone induced sleeping time methods.
 - e) Locomotor activity evaluation of drugs using actophotometer and rotorod.
 - f) Cardiotonic activity of drugs using isolated frog heart and mammalian heart preparations.

Sessionals Annual Identification 02 10 04 10 **Synopsis** Major Experiment (Bioassay) 08 30 Minor Experiment (Interpretation of 04 10 given Graph or simulated experiment) Viva 02 10 20 Max Marks 70 Duration 3hrs 4hrs

Scheme of Practical Examination:

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

3.2 PHARMACEUTICAL ANALYSIS (THEORY)

Theory: 3 Hrs. /Week

1. Quality Assurance:

- a. Introduction, sources of quality variation, control of quality variation.
- b. Concept of statistical quality control.
- c. Validation methods- quality of equipment, validation of equipment and validation of analytical instruments and calibration.
- d. GLP, ISO 9000.
- e. Total quality management, quality review and documentation.
- f. ICH- international conference for harmonization-guidelines.
- g. Regulatory control.

2. Chromatography:

Introduction, history, classification, separation techniques, choice of methods. The following techniques be discussed with relevant examples of pharmaceutical products involving principles and techniques of separation of drugs from excipients.

- a. **Column Chromatography**: Adsorption column chromatography, Operational technique, frontal analysis and elution analysis. Factors affecting column efficiency, applications and partition chromatography.
- b. TLC: Introduction, principle, techniques, Rf value and applications.
- c. **PC:** Introduction, principle, types of paper chromatography, preparation techniques, development techniques, applications.
- d. **Ion-exchange chromatography**: Introduction, principles, types of ion exchange synthetic resins, physical properties, factors affecting ion exchange, methodology and applications.
- e. **HPLC**: Introduction, theory, instrumentation, and applications.
- f. **HPTLC**: Introduction, theory, instrumentation, and applications.
- g. **Gas Chromatography**: Introduction, theory, instrumentation-carrier gases, types of columns, stationary phases in GLC & GSC. Detectors-Flame ionization detectors, electron capture detector, thermal conductivity detector. Typical gas chromatogram, derivatisation techniques, programmed temperature gas chromatography, applications.
- h. **Electrophoresis**: Principles of separation, equipment for paper and gel electrophoresis, and application.
- i. Gel filtration and affinity chromatography: Introduction, technique, applications.

3. Electrometric Methods:

Theoretical aspects, instrumentation, interpretation of data/spectra and analytical applications be discussed on the following topics.

- a. **Potentiometry**: Electrical potential, electrochemical cell, reference electrodes, indicator electrodes, measurement of potential and pH, construction and working of electrodes, Potentiometric titrations, methods of detecting end point, Karl Fischer titration.
- b. **Conductometry**: Introduction, conductivity cell, conductometric titrations and applications.
- c. **Polarography**: Instrumentation, DME, residual current, diffusion current and limiting current, polarographic wave, Ilkovic's equation, Effect of oxygen on polarographic wave, Polarographic maxima and suppressors and applications.
- d. **Amperometric Titrations:** Introduction, types of electrodes used, reference and indicator electrode, instrumentation, titration procedure, advantages and disadvantages of Amperometry over potentiometry. Pharma applications.

4. Spectroscopy:

Theoretical aspects, instrumentation, elements of interpretation of data/spectra and application of analytical techniques be discussed on:

- a. Absorption Spectroscopy:
 - Theory of electronic, atomic and molecular spectra. Fundamental laws of photometry, Beer-Lambert's Law, application and its deviation, limitation of Beer law, application of the law to single and multiple component analysis, measurement of equilibrium constant and rate constant by spectroscopy. Spectra of isolated chromophores, auxochromes, batho-chromic shift, hypsochromic shift, hyperchromic and hypochromic effect, effect of solvent on absorption spectra, molecular structure and infrared spectra.

Instrumentation – Photometer, U.V.-Visible spectrophotometer – sources of U.V.-Visible radiations, collimating systems, monochromators, samples cells and following detectors-Photocell, Barrier layer cell, Phototube, Diode array, applications of U.V.-Visible spectroscopy in pharmacy and spectrophotometric titrations.

Infrared Spectroscopy: Vibrational transitions, frequency – structure correlations, Infrared absorption bands, Instrumentation–IR spectrometer – sources of IR, Collimating systems, monochromators, sample cells, sample handling in IR spectroscopy and detectors–Thermocouple, Golay Cells, Thermistor, Bolometer, Pyroelectric detector, Applications of IR in pharmacy.

- Fluorimetric Analysis: Theory, luminescence, factors affecting fluorescence, quenching. Instrumentation, Applications, fluorescent indicators, study of pharmaceutically important compounds estimated by fluorimetry.
- b. **Flame Photometry:** Theory, nebulisation, flame and flame temperature, interferences, flame spectrometric techniques and instrumentation and pharmaceutical applications.
- c. **Atomic Absorption Spectrometry:** Introduction, Theory, types of electrodes, instrumentation and applications.
- d. **Atomic Emission Spectroscopy**: Spectroscopic sources, atomic emission spectrometers, photographic and photoelectric detection.
- e. NMR & ESR (introduction only): Introduction, theoretical aspects and applications.
- f. **Mass Spectroscopy**: (**Introduction only**) Fragmentation, types of ions produced mass spectrum and applications.
- g. **Polarimetry:** (Introduction only) Introduction to optical rotatory dispersion, circular dichroism, polarimeter.
- h. **X-RAY Diffraction: (Introduction only)** Theory, reciprocal lattice concept, diffraction patterns and applications.
- i. **Thermal Analysis**: Introduction, instrumentation, applications, and DSC and DTA.

3.2 PHARMACEUTICAL ANALYSIS (PRACTICAL)

Practical : 3 Hrs./Week

List of Experiments:

- 1. Separation and identification of Amino Acids by Paper Chromatography.
- 2. Separation and identification of Sulpha drugs by TLC technique.
- 3. Effect of pH and solvent on the UV spectrum of given compound.
- 4. Comparison of the UV spectrum of a compound with that of its derivatives.
- 5. Determination of dissociation constant of indicators using UV-Visible spectroscopy.
- 6. Conductometric titration of mixture of acids with a strong base.
- 7. Potentiometric titration of a acid with a strong base.
- 8. Estimation of drugs by Fluorimetric technique.
- 9. Study of quenching effect in fluorimetry.
- 10. Colourimetric estimation of Supha drugs using BMR reagent.

- 11. Simultaneous estimation of two drugs present in given formulation.
- 12. Assay of Salicylic Acid by colourimetry.
- 13. Determination of Chlorides and Sulphates in Calcium gluconate by Nepheloturbidimetric Method.
- 14. Determination of Na/K by Flame Photometry.
- 15. Determination of pKa using pH meter.
- 16. Determination of specific rotation.
- 17. Comparison of the IR spectrum of a compound with that of its derivatives.
- 18. Demonstration of HPLC.
- 19. Demonstration of HPTLC.
- 20. Demonstration of GC-MS.
- 21. Demonstration of DSC.
- 22. Interpretation of NMR spectra of any one compound.

Reference Books:

- 1. Text Book of Pharm. Analysis by Higuchi. T and Hasen. E. B., New York Inter Science Publishers.
- 2. Quantitative Pharma. Analysis by Jenkins, The Blakiston division, New York.
- 3. Quantitative Drug Analysis, by Garrot. D, Chapman & Hall Ltd., London.
- 4. Undergraduate Instrumental Analysis by James. E., CBS Publishers.
- 5. Instrumental Analysis by Willard and Merritt, EWP, East West Press Ltd., Delhi/Madras.
- 6. Pharm Analysis by Skoog and West, Sounders Manipal College Publishing.
- 7. Text Book of Chemical Analysis, by A.I.Vogel, ELBS with Macmillan press, Hampshire.
- 8. Textbook of Pharm. Analysis by K.A.Connors, John Wiley & Sons, New York, Brisbane, Singapore.
- 9. Textbook of Pharm. Analysis (Practical) by Beckett & Stenlake, CBS Publishers, Delhi.
- 10. Textbook of Drug Analysis by P.D. Sethi., CBS Publishers, Delhi.
- 11. Spectroscopy by Silverstein, John & Wiley & Sons. Inc., Canada & Singapore.
- 12. How to practise GMP-A Plan for total quality control by P.P. Sharma, Vandana Publications, Agra.
- 13. The Science & Practice of Pharmacy by Remington Vol-I & II, Mack Publishing Co. Pennsylvania.
- 14. TLC by Stahl, Spring Verlay.
- 15. Text Book of Pharm. Chemistry by Chatten, CBS Publications.
- 16. Spectroscopy by William Kemp, ELBS with Macmillan Press, Hampshire.
- 17. I.P.-1996, The Controller of Publications, New Delhi.
- 18. BPC-Dept. of Health, U.K. for HMSO.
- 19. USP Mack Publishing Co., Easton, PA.
- 20. The Extra Pharmacopoeia The Pharm. Press, London.

Practicals

Title of the Experiment:

- 1 Study of agonistic and antagonistic effects of drugs using Guinea-pig ileum preparation.**
- 2 To study the effects of drugs on intestinal motility using frog's esophagus model*
- 3 To study the effects of drugs using rat uterus preparation.**
- 4 To study the anticonvulsant property of drugs (any one model).*
- 5 To study antihistaminic property of drug using histamine induced anaphylactic reaction in guinea pigs.
- 6 To study the apomorphine-induced compulsive behaviour (stereotypy) in mice.*
- 7 To study the muscle relaxant property of diazepam in mice using rotarod apparatus.*
- 8 To study the antiinflammatory property of indomethacin against carrageenan-induced paw oedema.**
- 9 To study the anxiolytic effect of diazepam in mice using mirrored-chamber apparatus.**
- 10 To demonstrate the effect of various drugs on the blood pressure and respiration of anaesthetized dog.
- 11 To study the effect of anthelmintics on earthworms.
- 12 To study the taming effect of chlorpromazine.*
- 13 To study the effects of drugs on vas deferense of the male rat.**
- 14 To study the effect of drugs on pesticide toxicity using rats as model.
- 15 To study the effect of drugs on heavy metal toxicity.
 - ** indicate major experiment & * indicate minor experiment

	Sessionals	Annual	
Synopsis	05	15	
Major Experiment	10	25	
Minor Experiment	03	15	
Viva	02	15	
Max Marks	20	70	
Duration	03hrs	04hrs	

Scheme of Practical Examination:

Note : Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

3.3 PHARMACOTHERAPEUTICS – II (THEORY)

Theory: 3 Hrs. /Week

1. Scope of the Subject: This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

2. Objectives of the Subject Upon completion of the subject student shall be able to -

- a. know the pathophysiology of selected disease states and the rationale for drug therapy rapy
- b. know the therapeutic approach to management of these diseases; ses;
- c. know the controversies in drug therapy;y;
- d. know the importance of preparation of individualised therapeutic plans based on on diagnosis; and
- e. appreciate the needs to identify the patient-specific parameters relevant in initiating ting drug therapy, and monitoring therapy (including alternatives, time-course of clinical ical and laboratory indices of therapeutic response and adverse effects).ts).

Text books (Theory)

Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone publication

Reference books (Theory)

- a. Pharmacotherapy: A Pathophysiologic approach Joseph T. Dipiro et al. Appleton & Lange
- b. Clinical Pharmacy and Therapeutics Eric T. Herfindal, Williams and Wilkins Publication
- c. Applied Therapeutics: The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA]

3. Detailed syllabus and lecture wise schedule :

Etiopathogenesis and pharmacotherapy of diseases associated with following systems / diseases –

Title of the topic

1. Infectious disease: Guidelines for the rational use of antibiotics and surgical ical Prophylaxis, Tuberculosis, Meningitis, Respiratory tract infections, Gastroenteritis, itis, Endocarditis, Septicemia, Urinary tract infections, Protozoal infection- Malaria, ria, HIV & Opportunistic infections, Fungal infections, Viral infections, Gonarrhoea oea and Syphilliss

2 Musculoskeletal disorders[.]s

Rheumatoid arthritis, Osteoarthritis, Gout, Spondylitis, Systemic lupus pus erythematosus.

3 Renal system

Acute Renal Failure, Chronic Renal Failure, Renal Dialysis, Drug induced renal mal disorders

- 4 **Oncology:** Basic principles of Cancer therapy, General introduction to cancer cer chemotherapeutic agents, Chemotherapy of breast cancer, leukemia. Management ent of chemotherapy nausea and emesis s
- 5 **Dermatology:** Psoriasis, Scabies, Eczema, Impetigogo

3.3 PHARMACOTHERAPEUTICS – II (PRACTICAL)

Practical : 3 Hrs./Week

Practicals :

Hospital postings in various departments designed to complement the lectures by providing practical clinical discussion; attending ward rounds; follow up the progress and changes made in drug therapy in allotted patients; case presentation upon discharge. Students are required to maintain a record of cases presented and the same should be submitted at the end of the course for evaluation.

The student shall be trained to understand the principle and practice involved in selection of drug therapy including clinical discussion.

A minimum of 20 cases should be presented and recorded covering most common diseases.

Assignments :

Students are required to submit written assignments on the topics given to them. Topics allotted should cover recent developments in drug therapy of various diseases. A minimum of THREE assignments [1500 - 2000 words] should be submitted for evaluation.

Format of the assignment :

- 1. Minimum & Maximum number of pages.
- 2. Reference(s) shall be included at the end.
- 3. Assignment can be a combined presentation at the end of the academic year.
- 4. It shall be computer draft copy.
- 5. Name and signature of the student.
- 6. Time allocated for presentation may be 8+2 Min.

Scheme of Practical Examination :

	Sessionals	Annual	
Synopsis	05	15	
Major Experiment	10	25	
Minor Experiment	03	15	
Viva	02	15	
Max Marks	20	70	
Duration	03hrs	04hrs	

Note : Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).

3.4 PHARMACEUTICAL JURISPRUDENCE (THEORY)

Theory: 2 Hrs. /Week

- 1. Scope of the Subject: (4-6 lines): This course exposes the student to several important legislations related to the profession of pharmacy in India. The Drugs and Cosmetics Act, along with its amendments are the core of this course. Other acts, which are covered, include the Pharmacy Act, dangerous drugs, medicinal and toilet preparation Act etc. Besides this the new drug policy, professional ethics, DPCO, patent and design Act will be discussed.
- 2. Objectives of the Subject: Upon completion of the subject student shall be able to (Know, do, and appreciate)
 - a. practice the Professional ethics;
 - b. understand the various concepts of the pharmaceutical legislation in India;
 - c. know the various parameters in the Drug and Cosmetic Act and rules;
 - d. know the Drug policy, DPCO, Patent and design act;
 - e. understand the labeling requirements and packaging guidelines for drugs and cosmetics;
 - f. be able to understand the concepts of Dangerous Drugs Act, Pharmacy Act and Excise duties Act; and
 - g. other laws as prescribed by the Pharmacy Council of India from time to time including International Laws.

Text books (Theory)

Mithal, B M. Textbook of Forensic Pharmacy. Calcutta :National; 1988.

Reference books (Theory)

- a. Singh, KK, editor. Beotra's the Laws of Drugs, Medicines & cosmetics. Allahabad: Law Book House; 1984.
- b. Jain, NK. A Textbook of forensic pharmacy. Delhi: Vallabh prakashan; 1995.
- c. Reports of the Pharmaceutical enquiry Committee
- d. I.D.M.A., Mumbai. DPCO 1995
- e. Various reports of Amendments.
- f. Deshapande, S.W. The drugs and magic remedies act 1954 and rules 1955. Mumbai: Susmit Publications; 1998.
- g. Eastern Book Company .The narcotic and psychotropic substances act 1985, Lucknow: Eastern; 1987.

3. Detailed syllabus and lecture wise schedule:

Title of the topic

- 1. **Pharmaceutical Legislations** A brief review.
- 2. Principle and Significance of professional ethics. Critical study of the code of pharmaceutical ethics drafted by PCI.

3. Drugs and Cosmetics Act, 1940, and its rules 1945.

Objectives, Legal definition, Study of Schedule's with reference to Schedule B, C&C1, D, E1, F&F1, F2, F3, FF, G, H, J, K, M, N, P, R, V, W, X, Y. Sales, Import, labeling and packaging of Drugs And Cosmetics Provisions Relating to Indigenous Systems. Constitution and Functions of DTAB,DCC,CDL. Qualification and duties –Govt. analyst and Drugs Inspector. 4. **Pharmacy Act – 1948**.

Objectives Legal Definitions, General Study, Constitution and Functions of State & Central Council, Registration & Procedure, ER.

- 5. Medicinal and Toilet Preparation Act –1955. Objectives, Legal Definitions, Licensing, Bonded and Non Bonded Laboratory, Ware Housing, Manufacture of Ayurvedic, Homeopathic, Patent & Proprietory Preparations.
- 6. Narcotic Drugs and Psychotropic substances Act-1985 and Rules. Objectives, Legal Definitions, General Study, Constitution and Functions of narcotic & Psychotropic Consultative Committee, National Fund for Controlling the Drug Abuse, Prohibition, Control and regulations, Schedules to the Act.
- 7. Study of Salient Features of Drugs and magic remedies Act and its rules.
- 8. Study of essential Commodities Act Relevant to drugs price control Order.
- 9. Drug Price control Order & National Drug Policy (Current).
- 10. **Prevention Of Cruelty to animals Act-1960.**
- 11. Patents & design Act-1970.
- 12. Brief study of prescription and Non-prescription Products.

4. Assignments:

Format of the assignment

- 1. Minimum & Maximum number of pages
- 2. It shall be a computer draft copy
- 3. Reference(s) shall be included at the end.
- 4. Name and signature of the student
- 5. Assignment can be a combined presentation at the end of the academic year.
- 6. Time allocated for presentation may be 8+2 Min

Case studies relating to

- 1. Drugs and Cosmetics Act and rules along with its amendments, Dangerous Drugs Act, Medicinal and Toilet preparation Act, New Drug Policy, Professional Ethics, Drugs (Price control) Order, Patent and Design Act.
- 2. Various prescription and non-prescription products.
- 3. Medical and surgical accessories.
- 4. Diagnostic aids and appliances available in the market.

3.5 MEDICINAL CHEMISTRY (THEORY)

Theory: 3 Hrs. /Week

1. Modern concept of rational drug design: A brief introduction to Quantitative Structure Activity Relationaship (QSAR), prodrug, combinatorial chemistry and computer aided drug design (CADD) and concept of antisense molecules.

A study of the development of the following classes of drugs including SAR, mechanism of action, synthesis of important compounds, chemical nomenclature, brand names of important marketed products and their side effects.

- 2. Anti-infective agents
 - a) Local anti-infective agents
 - b) Preservatives
 - c) Antifungal agents
 - d) Urinary tract anti-infectives
 - e) Antitubercular agents
 - f) Antiviral agents and Anti AIDS agents
 - g) Antiprotozoal agents
 - h) Anthelmentics
 - i) Antiscabies and Antipedicular agents
- 3. Sulphonamides and sulphones
- 4. Antimalarials
- 5. Antibiotics
- 6. Antineoplastic agents
- 7. Cardiovascular agents
 - a) Antihypertensive agents
 - b) Antianginal agents and vasodilators
 - c) Antiarrhythmic agents
 - d) Antihyperlipidemic agents
 - e) Coagulants and Anticoagulants
 - f) Endocrine
- 8. Hypoglycemic agents
- 9. Thyroid and Antithyroid agents
- 10. Diureties
- 11. Diagnostic agents
- 12. Steroidal Hormones and Adrenocorticoids

3.5 MEDICINAL CHEMISTRY (PRACTICAL)

Practical : 3 Hrs./Week

- 1. Assays of important drugs from the course content.
- 2. Preparation of medicinally important compounds or intermediates required for synthesis of drugs.
- 3. Monograph analysis of important drugs.
- 4. Determination of partition coefficients, dissociation constants and molar refractivity of compounds for QSAR analysis.

Reference Books:

- a. Wilson and Gisvold's Text book of Organic, Medicinal and Pharmaceutical Chemistry, Lippincott-Raven Publishers-New York, Philadelphia.
- b. William.O.Foye, Principles of Medicinal Chemistry, B.I. Waverly Pvt. Ltd., New Delhi.
- c. Burgers, Medicinal Chemistry, M.E., Welly Med.Chemistry M.E. Walffed Johnwilley and Sons, Wiley-interscience Publication, New York, Toranto.
- d. A Text Book of Medicinal Chemistry Vol. I and II by Surendra N. Pandeya, S.G. Publisher, 6, Dildayal Nagar, Varanasi -10.
- e. Indian Pharmacopoeia 1985 and 1996. The Controller of Publications, Civil Lines, Delhi 54.
- f. Current Index of Medical Specialities (CIMS) and MIMS India, MIMS, A.E. Morgan Publications (I) Pvt. Ltd, New Delhi-19.
- g. Organic Drug Synthesis-Ledniser Mitzsher Vol. I and II.
- h. Pharmaceutical Chemistry drug Synthesis Vol. I and II by H. J. Roth and A. Kleemann.
- i. The Science and Practice of Pharmacy Vol. 1 and 2, Remington, MACK Publishing Company, Easton, Pennsylvania.

3.6 PHARMACEUTICAL FORMULATIONS (THEORY)

Theory: 2 Hrs. /Week

- **1.** Scope of the Subject: Scope and objectives of the course: Subject deals with the formulation and evaluation of various pharmaceutical dosage forms.
- 2. Objectives of the Subject: Upon completion of the subject student shall be able to (Know, do, appreciate)
 - a. understand the principle involved in formulation of various pharmaceutical dosage forms;
 - b. prepare various pharmaceutical formulation;
 - c. perform evaluation of pharmaceutical dosage forms; and
 - d. understand and appreciate the concept of bioavailability and bioequivalence, their role in clinical situations.

Text books (Theory)

- a. Pharmaceutical dosage forms, Vol, I,II and III by lachman
- b. Rowlings Text book of Pharmaceutics
- c. Tutorial Pharmacy Cooper & Gun

Reference books (Theory)

- a. Remington's Pharmaceutical Sciences
- b. USP/BP/IP

3. Detailed syllabus and lecture wise schedule:

Title of the topic

- 1. Pharmaceutical dosage form- concept and classification
- 2. **Tablets**: Formulation of different types of tablets, tablet excipients, granulation techniques quality control and evaluation of tablets. Tablet coating, Type of coating, quality control tests for coated tablet.
- 3. **Capsules**; Production and filling of hard gelatin capsules, Raw material for shell, finishing, quality control tests for capsules. Production and filling of soft gelatin capsules, quality control tests for soft gelatin capsules.
- 4. **Liquid orals**: Formulation and evaluation of suspensions, emulsions and solutions. Stability of these preparations
- 5. **Parenterals** Introduction Containers used for Parenterals (including official tests) Formulation of large and small volume Parenterals Sterilization
- 6. **Ophthalmic preparations (Semi Solids)**: Introduction and classification Factors affecting absorption and anatomy of skin Packaging storage and labeling, Ointments Types of Ointment Base Preparation of ointment, Jellies Types of jellies Formulation of jellies Suppositories, Method of preparation, Types Packaging
- 7. Definition and concept of **Controlled and novel Drug delivery systems** with available examples, viz. parentral, trans dermal, buccal, rectal, nasal, implants, ocular

3.6 PHARMACEUTICAL FORMULATIONS (PRACTICAL)

Practical : 3 Hrs./Week

List of Experiments :

1. Manufacture of Tablets

- **a.** Ordinary compressed tablet-wet granulation
- **b.** Tablets prepared by direct compression.
- **c.** Soluble tablet.
- **d.** Chewable tablet.

2. Formulation and filling of hard gelatin capsules

3. Manufacture of parenterals

- **a.** Ascorbic acid injection
- **b.** Calcium gluconate injection
- **c.** Sodium chloride infusion.
- d. Dextrose and Sodium chloride injection/ infusion.

4. Evaluation of Pharmaceutical formulations (QC tests)

- a. Tablets
- **b.** Capsules
- c. Injections

5. Formulation of two liquid oral preparations and evaluation by assay

- a. Solution: Paracetamol Syrup
- b. Antacid suspensions- Aluminum hydroxide gel

6. Formulation of semisolids and evaluation by assay

- a. Salicyclic acid and benzoic acid ointment
- **b.** Gel formulation Diclofenac gel

7. Cosmetic preparations

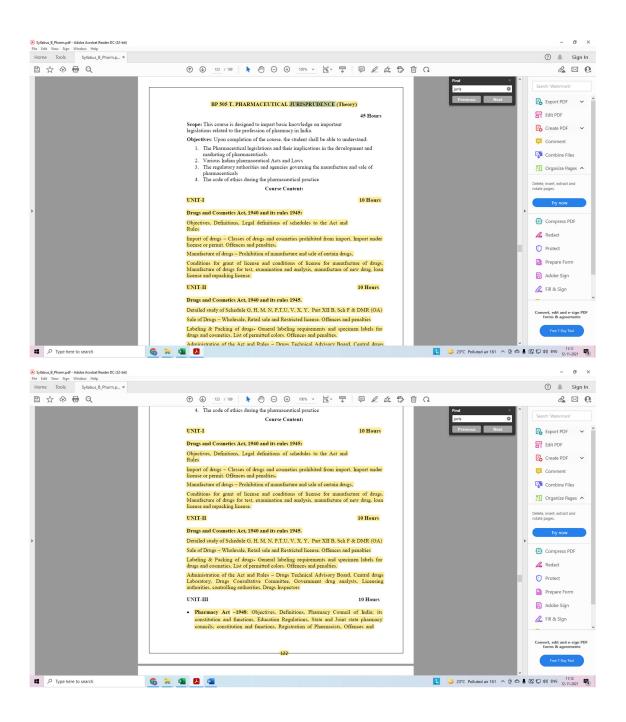
- a. Lipsticks
- **b.** Cold cream and vanishing cream
- **c.** Clear liquid shampoo
- **d.** Tooth paste and tooth powders.

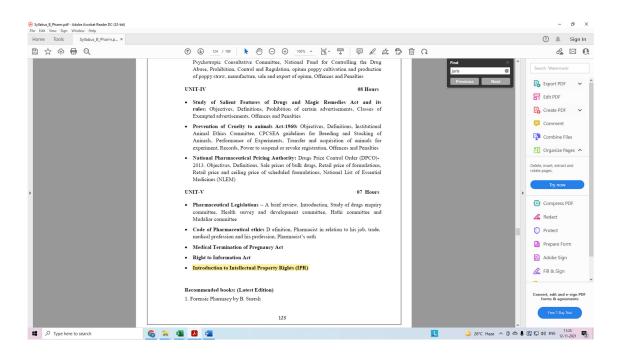
8. Tablet coating (demonstration)

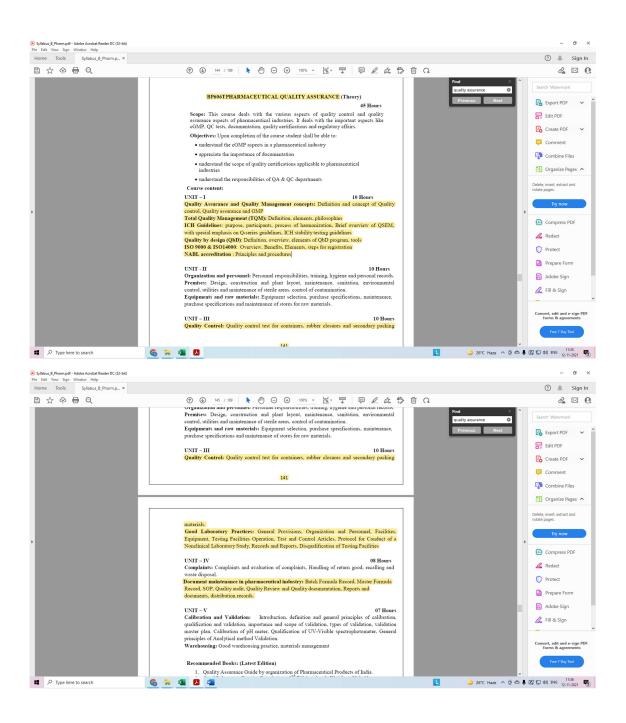
Scheme of Practical Examination :

	Sessionals	Annual	
Synopsis	05	15	
Major Experiment	10	25	
Minor Experiment	03	15	
Viva	02	15	
Max Marks	20	70	
Duration	03hrs	04hrs	

Note : Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).







Unit III

Study of morphology, classification, reproduction/replication and cultivation of Fungi and Viruses.

Classification and mode of action of disinfectants

Factors influencing disinfection, antiseptics and their evaluation. For bacteriostatic and bactericidal actions

Evaluation of bactericidal & Bacteriostatic.

Sterility testing of products (solids, liquids, ophthalmic and other sterile products) according to IP, BP and USP.

Unit IV

Designing of aseptic area, laminar flow equipments; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.

Principles and methods of different microbiological assay. Methods for standardization of antibiotics, vitamins and amino acids. Assessment of a new antibiotic.

Unit V

Types of spoilage, factors affecting the microbial spoilage of pharmaceutical products, sources and types of microbial contaminants, assessment of microbial contamination and spoilage.

Preservation of pharmaceutical products using antimicrobial agents, evaluation of microbial stability of formulations.

Growth of animal cells in culture, general procedure for cell culture, Primary, established and transformed cell cultures.

Application of cell cultures in pharmaceutical industry and research.

10 Hours

08 Hours

07Hours

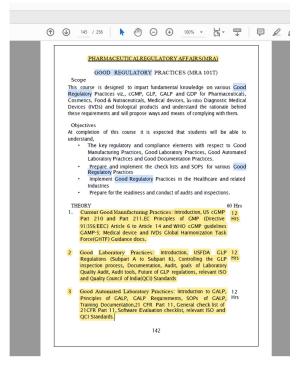
BP 307P.PHARMACEUTICAL MICROBIOLOGY (Practical)

4 Hrs/week

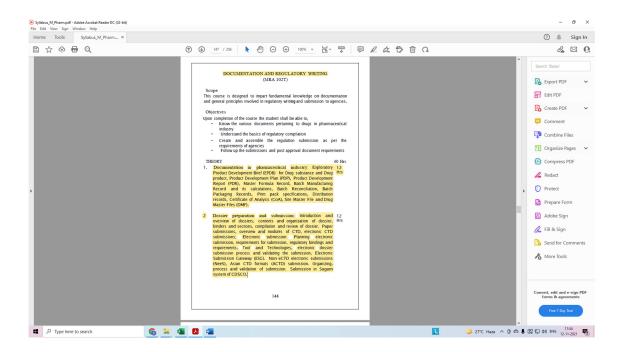
- Introduction and study of different equipments and processing, e.g., B.O.D. incubator, laminar flow, aseptic hood, autoclave, hot air sterilizer, deep freezer, refrigerator, microscopes used in experimental microbiology.
- Sterilization of glassware, preparation and sterilization of media.
- 3. Sub culturing of bacteria and fungus. Nutrient stabs and slants preparations.
- Staining methods- Simple, Grams staining and acid fast staining (Demonstration with practical).
- Isolation of pure culture of micro-organisms by multiple streak plate technique and other techniques.
- 6. Microbiological assay of antibiotics by cup plate method and other methods
- 7. Motility determination by Hanging drop method.
- 8. Sterility testing of pharmaceuticals.
- 9. Bacteriological analysis of water
- 10. Biochemical test.

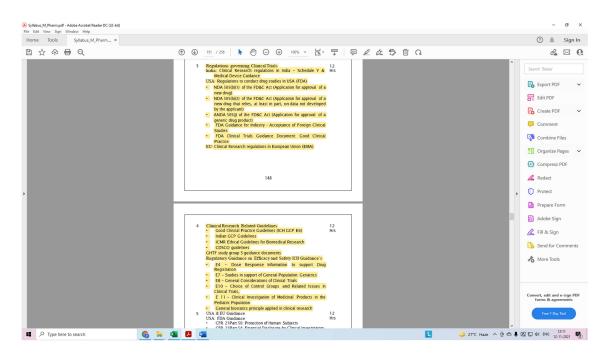
Recommended Books (Latest edition)

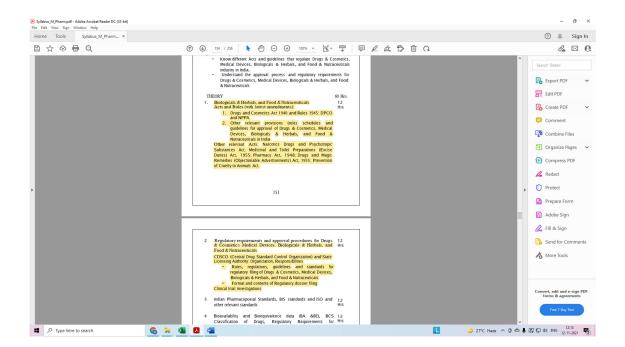
- W.B. Hugo and A.D. Russel: Pharmaceutical Microbiology, Blackwell Scientific publications, Oxford London.
- Prescott and Dunn., Industrial Microbiology, 4th edition, CBS Publishers & Distributors, Delhi.
- 3. Pelczar, Chan Kreig, Microbiology, Tata McGraw Hill edn.
- 4. Malcolm Harris, Balliere Tindall and Cox: Pharmaceutical Microbiology.
- 5. Rose: Industrial Microbiology.
- 6. Probisher, Hinsdill et al: Fundamentals of Microbiology, 9th ed. Japan
- 7. Cooper and Gunn's: Tutorial Pharmacy, CBS Publisher and Distribution.
- 8. Peppler: Microbial Technology.
- 9. I.P., B.P., U.S.P.- latest editions.
- 10. Ananthnarayan : Text Book of Microbiology, Orient-Longman, Chennai
- 11. Edward: Fundamentals of Microbiology.
- 12. N.K.Jain: Pharmaceutical Microbiology, Vallabh Prakashan, Delhi
- 13. Bergeys manual of systematic bacteriology, Williams and Wilkins- A Waverly company

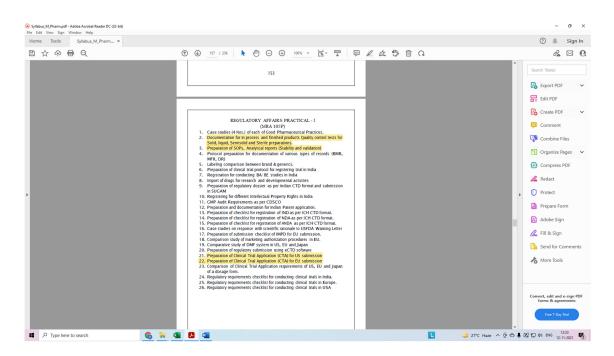


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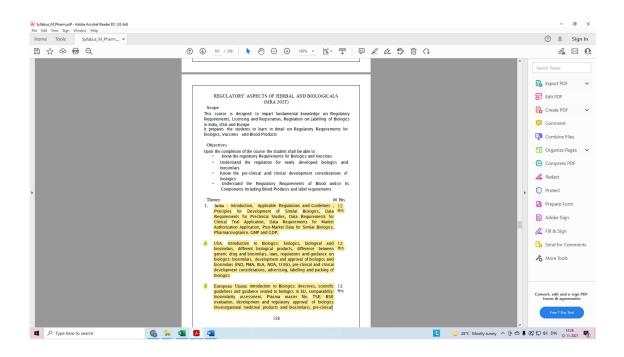


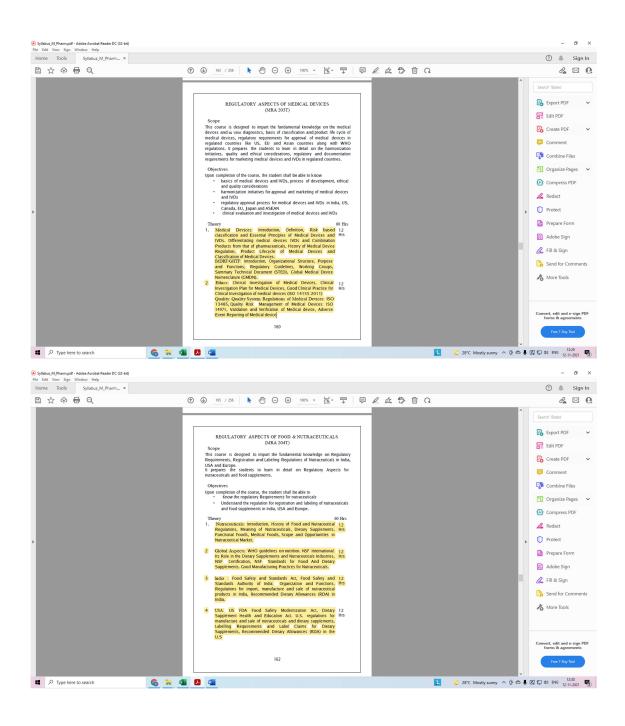






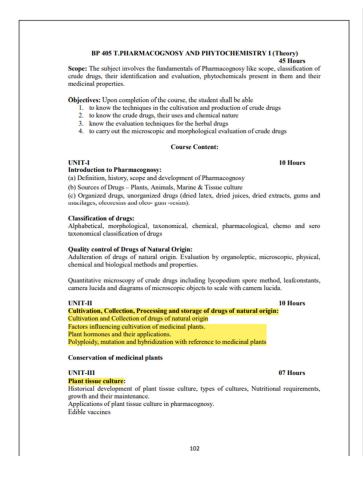
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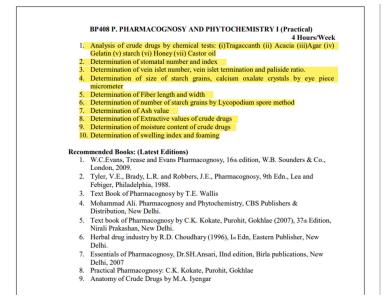


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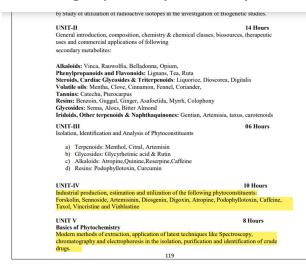
Pharmacognosy and Phytochemistry I Theory



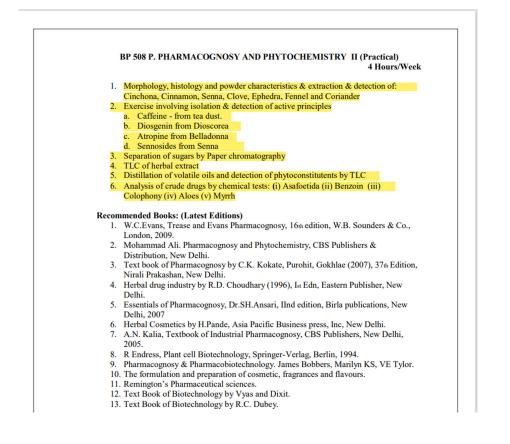
Pharmacognosy and Phytochemistry I – Practical



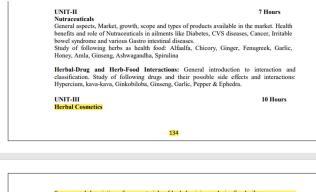
Pharmacognosy and Phytochemistry II theory



Pharmacognosy and Phytochemistry II Practical



Herbal Drug technology Theory



Sources and description of raw materials of herbal origin used via, fixed oils, waxes, guns colours, perfumes, protective agents, bleaching agents, antioxidants in products such as skin care, hair care and oral hygiene products. Herbal excipients Herbal Excipients – Significance of substances of natural origin as excipients – colorants, sweeteners, binders, diluents, viscosity builders, disintegrants, flavors & perfumes.

sweeteners, binders, diluents, viscosity builders, disintegrants, flavors & perfumes.

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

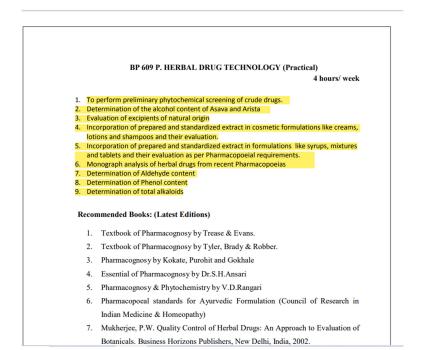
UNIT- IV 10 Hours Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs Stability testing of herbal drugs.

Patenting and Regulatory requirements of natural products: a) Definition of the terms: Patent, IPR, Farmers right, Breeder's right, Bioprospecting and

a) Deminion of the terms: ratent, ir R, rarmers right, breeder's right, Bioprospecting and Biopiracy b) Patenting aspects of Traditional Knowledge and Natural Products. Case study of Curcuma & Neem.

Regulatory Issues - Regulations in India (ASU DTAB, ASU DCC), Regulation of

Herbal Drug technology Practical



Advanced Pharmacognosy I

ADVANCED PHARMACOGNOSY - I (MPG 102T)

SCOPE

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

OBJECTIVES

- Upon completion of the course, the student shall be able to know the, advances in the cultivation and production of drugs
 - · various phyto-pharmaceuticals and their source, its utilization and
 - medicinal value.
 - various nutraceuticals/herbs and their health benefits
 - Drugs of marine origin Pharmacovigilance of drugs of natural origin
- THEORY
- 60 Hrs Plant drug cultivation: General introduction to the importance of 12 1. Pharmacognosy in herbal drug industry, Indian Council of Hrs Agricultural Research, Current Good Agricultural Practices, Current Good Cultivation Practices, Current Good Collection Practices, Conservation of medicinal plants- Ex-situ and Insitu conservation of medicinal plants.
- Marine natural products: General methods of isolation and 12 purification, Study of Marine toxins, Recent advances in research Hrs 2 in marine drugs, Problems faced in research on marine drugs such as taxonomical identification, chemical screening and their solution.
- Nutraceuticals: Current trends and future scope, Inorganic 12 mineral supplements, Vitamin supplements, Digestive enzymes, Hrs 3 Dietary fibres, Cereals and grains, Health drinks of natural origin, Antioxidants, Polyunsaturated fatty acids, Herbs as functional foods, Formulation and standardization of neutraceuticals, Regulatory aspects, FSSAI guidelines, Sources, name of marker compounds and their chemical nature, medicinal uses and health benefits of following
- **Phytochemistry**

PHYTOCHEMISTRY (MPG 103T)

SCOPE

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

OBJECTIVES

- Upon completion of the course, the student shall be able to know the, different classes of phytoconstituents, their biosynthetic pathways, their properties, extraction and general process of natural product drug discovery
 - phytochemical fingerprinting and structure elucidation of phytoconstituents

60 Hrs

THEORY 1

Biosynthetic pathways and Radio tracing techniques: 12 Constituents & their Biosynthesis, Isolation, Characterization and Hrs purification with a special reference to their importance in herbal industries of following phyto-pharmaceuticals containing drugs: a) Alkaloids: Ephedrine, Quinine, Strychynine, Piperine,

- Berberine, Taxol, Vinca alkoloids. b) Glycosides: Digitoxin, Glycyrrhizin, Sennosides, Bacosides, Quercitin.
- Steroids: Hecogenin, guggulosterone and withanolides c) d) Coumarin: Umbelliferone
- e) Terpenoids: Cucurbitacins
- ery and development: History of herbs as source of 2 drugs and drug discovery, the lead structure selection process, structure development, product discovery process and drug registration, Selection and optimization of lead compounds with suitable examples from the following source : artemesin, andrographolides. Clinical studies emphasising on phases of clinical trials, protocol design for lead molecules.
- Extraction and Phytoch extractions with emphasis on selection of method and choice of Hrs solvent for extraction, successive and exhaustive extraction and other methods of extraction commonly used like microwave 212 cal studies: Recent advances in 3

- Phytopharmaceuticals: Occurrence, isolation and characteristic 12 4 features (Chemical nature, uses in pharmacy, medicinal and Hrs health benefits) of following,
 - Carotenoids i) α and β Carotene ii) Xanthophyll (Lutein)
 - b) Limonoids - i) d-Limonene ii) α - Terpineol Saponins - i) Shatavarins c)
 - d) Flavonoids - i) Resveratrol ii) Rutin iii) Hesperidin iv) Naringin v) Quercetin
 - Phenolic acids- Ellagic acid
 - f) Vitamins Tocotrienols and Tocopherols
 - h) Andrographolide, Glycolipids, Gugulipids, Withanolides, Vascine, Taxo
 - i) Miscellaneous

Pharmacovigilance of drugs of natural origin: WHO and 12 5 AYUSH guidelines for safety monitoring of natural medicine, Hrs Spontaneous reporting schemes for biodrug adverse reactions, bio drug-drug and bio drug-food interactions with suitable examples.

REFERENCES (Latest Editions of)

- 1. Pharmacognosy G. E. Trease and W.C. Evans. Saunders Edinburgh, New York.
- 2. Pharmacognosy-Tyler, Brady, Robbers
- Modem Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I&II 3.
- 4. Text Book of Pharmacognosy by T.E. Wallis Marine Natural Products-Vol.I to IV. 5.
- 6.
- Natural products: A lab guide by Raphael Ikan , Academic Press 1991. 7. Glimpses of Indian Ethano Pharmacology, P. Pushpangadam, Ulf Nyman,
- V.George Tropical Botanic Garden & Research Institute, 1995
- 8. Medicinal natural products (a biosynthetic approach), Paul M. Dewick, John Wiley & Sons Ltd., England, 1998.
- 9. Chemistry of Marine Natural Products- Paul J. Schewer 1973

- assisted extraction, Methods of fractionation, Separation of phytoconstituents by latest CCCET, SCFE techniques including preparative HPLC and Flash column chromatography.
- Phytochemical finger printing: HPTLC and LCMS/GCMS 12 Hrs applications in the characterization of herbal extracts. Structure elucidation of phytoconstituents.

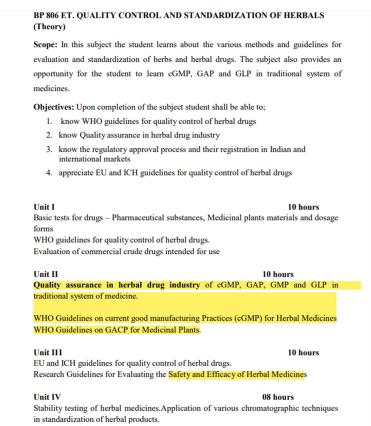
Structure elucidation of the following compounds by spectroscopic 5 12 techniques like UV, IR, MS, NMR (1H, 13C) Hrs

- a. Carvone, Citral, Menthol
- b. Luteolin, Kaempferolc. Nicotine, Caffeine iv) Glycyrrhizin.

REFERENCES (Latest Editions of)

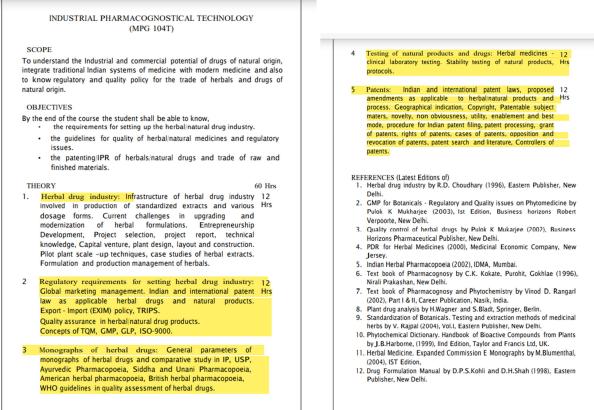
- Organic chemistry by I.L. Finar Vol.II Pharmacognosy by Trease and Evans, ELBS.
- 3. Pharmacognosy by Tylor and Brady.
- 4. Text book of Pharmacognosy by Wallis
- 5. Clark's isolation and Identification of drugs by A.C. Mottal.
- Plant Drug Analysis by Wagner & Bladt. 6.
- 7. Wilson and Gisvolds text book of Organic Medicinnal and Pharmaceutical Chemistry by Deorge, R.F.
- 8. The Chemistry of Natural Products, Edited by R.H. Thomson, Springer International Edn. 1994.
- 9. Natural Products Chemistry Practical Manual by Anees A Siddiqui and SeemiSiddiqui
- 10. Organic Chemistry of Natural Products, Vol. 1&2. Gurdeep R Chatwal.
- 11. Chemistry of Natural Products- Vol. 1 onwards IWPAC.
- 12. Modem Methods of Plant Analysis- Peach & M.V. Tracey, Vol. I&II 13. Medicinal Natural products - a biosynthetic approach. Dewick PM. John
- Wiley & Sons, Toronto, 1998. 14. Chemistry of Natural Products, Bhat SV, Nagasampagi BA, Meenakshi S,
- Narosa Publishing House, New Delhi. e nd

Quality Control and Standardization of Herbals – Theory



in standardization of herbal products. Preparation of documents for new drug application and export registration GMP requirements and Drugs & Cosmetics Act provisions.

Industrial Pharmacognostical Technology



PHARMACOGNOSY PRACTICAL - I (MPG 105P)

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

Medicinal Plant biotechnology

MEDICINAL PLANT BIOTECHNOLOGY (MPG 201T)

SCOPE

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

OBJECTIVES

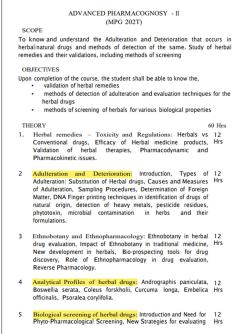
Upon completion of the course, the student shall be able to,

- Know the process like genetic engineering in medicinal plants for higher yield of Phytopharmaceuticals.
- Use the biotechnological techniques for obtaining and improving the quality of natural products/medicinal plants
- THEORY 60 Hrs 1. Introduction to Plant biotechnology: Historical perspectives, 12 prospects for development of plant biotechnology as a source of Hrs medicinal agents. Applications in pharmacy and allied fields. Genetic and molecular biology as applied to pharmacognosy, study of DNA, RNA and protein replication, genetic code, regulation of gene expression, structure and complicity of
- 2 Different tissue culture techniques: Organogenesis and 15 embryogenesis, synthetic seed and monoclonal variation, Hrs Protoplast fusion, Hairy root multiple shoot cultures and their applications. Micro propagation of medicinal and aromatic plants. Sterilization methods involved in tissue culture, gene transfer in plants and their applications.

genome, cell signaling, DNA recombinant technology.

- 3 Immobilisation techniques & Secondary Metabolite 15 Production: Immobilization techniques of plant cell and its Hrs application on secondary metabolite Production. Cloning of plant cell: Different methods of cloning and its applications. Advantages and disadvantages of plant cell cloning. Secondary metabolism in tissue cultures with emphasis on production of medicinal agents. Precursors and elicitors on production of secondary metabolites.
- 4 Biotransformation and Transgenesis: Biotransformation, 13 bioreactors for pilot and large scale cultures of plant cells and Hrs retention of biosynthetic potential in cell culture. Transgenic 243

Advanced Pharmacognosy-II



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Indian system of medicine

- a) Naturopathy Introduction, basic principles and treatment Hrs modalities. b) Yoga - Introduction and Streams of Yoga. Asanas, Pranayama, Meditations and Relaxation techniques. c) Aromatherapy – Introduction, aroma oils for common problems, carrier oils.
- Formulation development of various systems of medicine 3 rormutation development of various systems of medicine 12 Salient features of the techniques of preparation of some of the Important class of Formulations as per Ayurveda, Siddha, Homeopathy and Unani Pharmacopeia and texts. Standardization, Shelf life and Stability studies of ISM formulations. 247 247

Schedule T - Good Manufacturing Practice of Indian systems of 12 medicine Hrs Components of GMP (Schedule - T) and its objectives, Infrastructural requirements, working space, storage area, machinery and equipments, standard operating procedures, health and hygiene, documentation and records. Quality assurance in ISM formulation industry - GAP, GMP and GLP. Preparation of documents for new drug application and export registration. Challenges in monitoring the safety of herbal medicines: Regulation, quality assurance and control, National/Regional Pharmacopoeias. 5

TKDL, Geographical indication Bill, Government bills in AYUSH, 12 Hrs ISM, CCRAS, CCRS, CCRH, CCRU

Herbal Cosmetics

	(MPG 204T)
Thi her	COPE s subject deals with the study of preparation and standardization balnatural cosmetics. This subject gives emphasis to various national rnational standards prescribed reaarding herbal cosmeceuticals.
	BJECTIVES r completion of the course, student shall be able to, understand the basic principles of various herbal natural cosm preparations
	 current Good Manufacturing Practices of herbal/natural cosmetics per the regulatory authorities
TH	EORY 60 H
1.	Introduction: Herbal/natural cosmetics, Classification & 12 Economic aspects. Regulatory Provisions relation to manufacture of cosmetics: - License, GMP, offences & Penalties, Import & Export of Herbal/natural cosmetics; Industries involved in the production of Herbal/natural cosmetics;
2	Commonly used herbal cosmetics, raw materials, preservatives, 12 surfactants, humectants, oils, colors, and some functional herbs, Hrs preformulation studies, compatibility studies, possible interactions between chemicals and herbs, design of herbal cosmetic formulation.
3	Herbal Cosmetics : Physiology and chemistry of skin and 12 pigmentation, hairs, scalp, lips and nail, Cleansing cream, Hrs Lotions, Face powders, Face packs, Lipsticks, Bath products, soaps and baby product, Preparation and standardisation of the following : Tonic, Bleaches, Dentifrices and Mouth washes & Tooth Pastes, Cosmetics for Nails.
	Cosmeceuticals of herbal and natural origin: Hair growth 12

Herbal cosmetics Practical

HERBAL COSMETICS PRACTICALS (MPG 205P)

- 1. Isolation of nucleic acid from cauliflower heads
- 2. Isolation of RNA from yeast
- 3. Quantitative estimation of DNA
- 4. Immobilization technique
- 5. Establishment of callus culture
- 6. Establishment of suspension culture
- 7. Estimation of aldehyde contents of volatile oils
- 8. Estimation of total phenolic content in herbal raw materials
- 9. Estimation of total alkaloid content in herbal raw materials
- 10. Estimation of total flavonoid content in herbal raw materials
- 11. Preparation and standardization of various simple dosage forms from Ayurvedic, Siddha, Homoeopathy and Unani formulary
- 12. Preparation of certain Aromatherapy formulations
- 13. Preparation of herbal cosmetic formulation such as lip balm, lipstick, facial cream, herbal hair and nail care products
- 14. Evaluation of herbal tablets and capsules
- 15. Preparation of sunscreen, UV protection cream, skin care formulations.
- 16. Formulation & standardization of herbal cough syrup.

Pharm D

Pharmacognosy & Phytopharmaceuticals

2.3 PHARMACOGNOSY & PHYTOPHARMACEUTICALS (PRACTICAL)

Practical : 3 Hrs./Week

General Require ments: Laboratory Napkin, Observation Book 150 pages Zero brush, Needle, Blade, Match box.

List of experiments:

1	Introduction of Pharmacognosy laboratory and experiments.
2	Study of cell wall constituents and cell inclusions.
3	Macro, powder and microscopic study of Datura.
4	Macro, powder and microscopic study of Senna.
5	Macro, powder and microscopic study of Cassia.cinnamon.
6	Macro, powder and microscopic study of Cinchona.
7	Macro, powder and microscopic study of Ephedra.
8	Macro, powder and microscopic study of Quassia.
9	Macro, powder and microscopic study of Clove
10	Macro, powder and microscopic study of Fennel.
11	Macro, powder and microscopic study of Coriander.
12	Macro, powder and microscopic study of Isapgol.
13	Macro, powder and microscopic study of Nux vomica.
14	Macro, powder and microscopic study of Rauwolfia.
15	Macro, powder and microscopic study of Liquorice.
16	Macro, powder and microscopic study of Ginger.
17	Macro, powder and microscopic study of Podophyllum.
18	Determination of Iodine value.
19	Determination of Saponification value and unsaponifiable matter.
20	Determination of ester value.
21	Determination of Acid value.
22	Chemical tests for Acacia.
23	Chemical tests for Tragacanth.
24	Chemical tests for Agar.

Computer Applications in Pharmacy – Theory

BP205 T. COMPUTER APPLICATIONS IN PHARMACY	Theory)
30 H	rs (2 Hrs/Week
Scope: This subject deals with the introduction Database, Database Mar computer application in clinical studies and use of databases.	agement system
Objectives: Upon completion of the course the student shall be able to	
 know the various types of application of computers in pharm know the various types of databases know the various applications of databases in pharmacy 	lacy
Course content:	
UNIT – I	06 hours
Number system: Binary number system, Decimal number system, Oct number system, Hexadecimal number systems, conversion decimal to binary, binary to decimal, octal to binary etc, binary addition, binary subtraction – One's complement, Two's complement method, binary multiplication, binary division	al
Concept of Information Systems and Software : Information gather requirement and feasibility analysis, data flow diagrams, process specifications, input/output design, process life cycle, planning and managing the project	ing.
UNIT -II	06 hours
Web technologies:Introduction to HTML, XML, CSS and Programming languages, introduction to web servers and Server Products	
Introduction to databases, MYSQL, MS ACCESS, Pharmacy Drug data UNIT - III	06 hours
Application of computers in Pharmacy – Drug information storag retrieval, Pharmacokinetics, Mathematical model in Drug design, Ho and Clinical Pharmacy, Electronic Prescribing and discharge (EP) sy barcode medicine identification and automated dispensing of drugs, r technology and adherence monitoring Diagnostic System, Lab-diagnostic System, Patient Monitoring System	e and ospital stems, nobile

UNIT – IV	06 hours
Bioinformatics: Introduction, Objective of Bioinformatics, Bioinformatics	
Databases, Concept of Bioinformatics, Impact of Bioinformatics in Vaccine	
Discovery	
UNIT-V	06 hours
Computers as data analysis in Preclinical development:	
Chromatographic dada analysis(CDS), Laboratory Information management	
System (LIMS) and Text Information Management System(TIMS)	

Computer Applications in Pharmacy – Practical

BP210P. COMPUTER APPLICATIONS IN PHARMACY (Practical)

- Design a questionnaire using a word processing package to gather information about a particular disease.
- 2. Create a HTML web page to show personal information.
- 3 Retrieve the information of a drug and its adverse effects using online tools
- 4 Creating mailing labels Using Label Wizard , generating label in MS WORD
- 5 Create a database in MS Access to store the patient information with the required fields Using access
- Design a form in MS Access to view, add, delete and modify the patient record in the database
- 7. Generating report and printing the report from patient database
- 8. Creating invoice table using MS Access
- 9. Drug information storage and retrieval using MS Access
- 10. Creating and working with queries in MS Access
- 11. Exporting Tables, Queries, Forms and Reports to web pages
- 12. Exporting Tables, Queries, Forms and Reports to XML pages

Recommended books (Latest edition):

- Computer Application in Pharmacy William E Fassett –Lea and Febiger, 600 South Washington Square, USA, (215) 922-1330.
- Computer Application in Pharmaceutical Research and Development Sean Ekins Wiley-Interscience, A John Willey and Sons, INC., Publication, USA
- Bioinformatics (Concept, Skills and Applications) S.C.Rastogi-CBS Publishers and Distributors, 4596/1- A, 11 Darya Gani, New Delhi – 110 002(INDIA)
- Microsoft office Access 2003, Application Development Using VBA, SQL Server, DAP and Infopath - Cary N.Prague - Wiley Dreamtech India (P) Ltd., 4435/7, Ansari Road, Daryagani, New Delhi - 110002

MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

PHARMACEUTICALQUALITYASSURANCE(MQA) MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES (MQA 101T) Scope This subject deals with various advanced analytical instrumental techniques for identification, characterization and quantification of drugs. Instruments dealt are NMR, Mass spectrometer, IR, HPLC, GC etc. Objectives After completion of course student is able to know about chemicals and excipients The analysis of various drugs in single and combination dosage forms Theoretical and practical skills of the instruments . THEORY 60 Hrs 1. a. UV-Visible spectroscopy: Introduction, Theory, Laws, 12 Instrumentation associated with UV-Visible spectroscopy, Choice Hrs of solvents and solvent effect and Applications of UV-Visible spectroscopy, Difference/ Derivative spectroscopy. b. IR spectroscopy: Theory, Modes of Molecular vibrations, Sample handling, Instrumentation of Dispersive and Fourier -Transform IR Spectrometer, Factors affecting vibrational frequencies and Applications of IR spectroscopy, Data Interpretation. c. Spectroflourimetry: Theory of Fluorescence, Factors affecting fluorescence (Characterestics of drugs that can be analysed by flourimetry), Quenchers, Instrumentation and Applications of fluorescence spectrophotometer. d. Flame emission spectroscopy and Atomic absorption spectroscopy: Principle, Instrumentation, Interferences and Applications. 2 NMR spectroscopy: Quantum numbers and their role in NMR, 12 Principle, Instrumentation, Solvent requirement in NMR, Hrs Relaxation process, NMR signals in various compounds, Chemical shift, Factors influencing chemical shift, Spin-Spin coupling, Coupling constant, Nuclear magnetic double resonance, Brief outline of principles of FT-NMR and 13C NMR. Applications of NMR spectroscopy.

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3	Mass Spectroscopy: Principle, Theory, Instrumentation of Mass 12
	Spectroscopy, Different types of ionization like electron impact, Hr
	chemical, field, FAB and MALDI, APCI, ESI, APPI Analyzers of
	Quadrupole and Time of Flight, Mass fragmentation and its rules,
	Meta stable ions, Isotopic peaks and Applications of Mass
	spectroscopy.

- 4 Chromatography: Principle, apparatus, instrumentation, 12 chromatographic parameters, factors affecting resolution, isolation Hrs of drug from excipients, data interpretation and applications of the following:
 - Thin Layer chromatography
 - High Performance Thin Layer Chromatography
 - Ion exchange chromatography
 - Column chromatography
 - Gas chromatography
 - High Performance Liquid chromatography
 - Ultra High Performance Liquid chromatography
 - Affinity chromatography
 - Gel Chromatography
- 5 a. Electrophoresis: Principle, Instrumentation, Working 12 conditions, factors affecting separation and applications of the Hrs following:

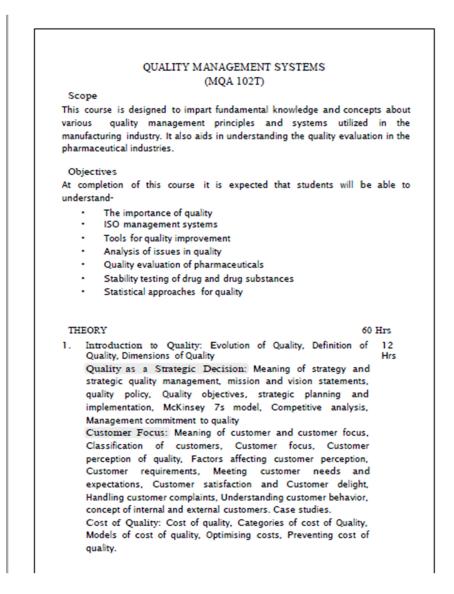
a) Paper electrophoresis b) Gel electrophoresis c) Capillary electrophoresis d) Zone electrophoresis e) Moving boundary electrophoresis f) Iso electric focusing

b. X ray Crystallography: Production of X rays, Different X ray methods, Bragg's law, Rotating crystal technique, X ray powder technique, Types of crystals and applications of X-ray diffraction.

6 a. Potentiometry: Principle, working, Ion selective Electrodes 12 and Application of potentiometry. Hrs

b. Thermal Techniques: Principle, thermal transitions and Instrumentation (Heat flux and power-compensation and designs), Modulated DSC, Hyper DSC, experimental parameters (sample preparation, experimental conditions, calibration, heating and cooling rates, resolution, source of errors) and their influence, advantage and disadvantages, pharmaceutical applications. Differential Thermal Analysis (DTA): Principle, instrumentation

Quality Management System



2	Pharmaceutical quality Management: Basics of Quality	12
	Management, Total Quality Management (TQM), Principles of Six sigma, ISO 9001:2008, 9001:2015, ISO 14001:2004,	Hrs
	Pharmaceutical Quality Management - ICH Q10, Knowledge management, Quality Metrics, Operational Excellence and Quality	
	Management Review. OSHAS guidelines, NABL certification and accreditation, CFR-21 part 11, WHO-GMP requirements.	
3	Six System Inspection model: Quality Management system, Production system, Facility and Equipment system, Laboratory control system, Materials system, Packaging and labeling system. Concept of self inspection. Quality systems: Change Management/ Change control. Deviations, Out of Specifications (OOS), Out of Trend (OOT), Complaints - evaluation and handling, Investigation and determination of root cause, Corrective & Preventive Actions (CAPA), Returns and Recalls, Vendor Qualification, Annual Product Reviews, Batch Review and Batch Release. Concept of IPQC, area clearance/ Line clearance.	12 Hrs

4 Drug Stability: ICH guidelines for stability testing of drug substances and drug products. Hrs Study of ICH Q8, Quality by Design and Process development report Quality risk management: Introduction, risk assessment, risk control, risk review, risk management tools, HACCP, risk ranking and filtering according to ICH Q9 guidelines.

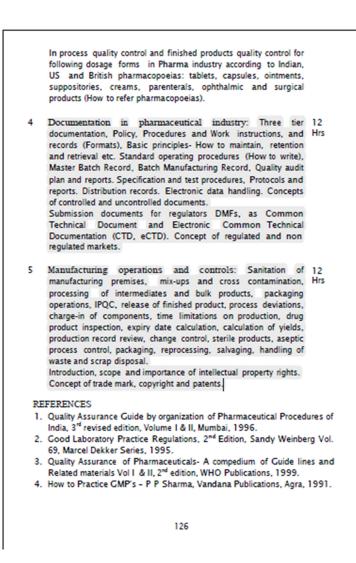
5 Statistical Process control (SPC): Definition and Importance of 8 Hrs SPC, Quality measurement in manufacturing, Statistical control charts - concepts and general aspects, Advantages of statistical control, Process capability, Estimating Inherent or potential capability from a control chart analysis, Measuring process control and quality improvement, Pursuit of decreased process variability.

6 Regulatory Compliance through Quality Management and 4 Hrs development of Quality Culture Benchmarking: Definition of benchmarking, Reasons for benchmarking, Types of Benchmarking, Benchmarking process, Advantages of benchmarking, Limitations of benchmarking.

Quality Control and Quality Assurance

QUALITY CONTROL AND QUALITY ASSURANCE (MQA 103T) Scope This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It covers the important aspects like cGMP, QC tests, documentation, quality certifications, GLP and regulatory affairs. Objectives Upon completion of this course the student should be able to Understand the cGMP aspects in a pharmaceutical industry . To appreciate the importance of documentation To understand the scope of quality certifications applicable to . Pharmaceutical industries To understand the responsibilities of QA & QC departments. . THEORY 60 Hrs 1. Introduction: Concept and evolution and scopes of Quality 12 Control and Quality Assurance, Good Laboratory Practice, GMP, Hrs Overview of ICH Guidelines - QSEM, with special emphasis on Qseries guidelines. Good Laboratory Practices: Scope of GLP, Definitions, Quality assurance unit, protocol for conduct of non clinical testing, control on animal house, report preparation and documentation. CPCSEA guidelines. 2 cGMP guidelines according to schedule M, USFDA (inclusive of 12 CDER and CBER) Pharmaceutical Inspection Convention(PIC), Hrs WHO and EMEA covering: Organization and personnel responsibilities, training, hygiene and personal records, drug industry location, design, construction and plant lay out, maintenance, sanitation, environmental control, utilities and maintenance of sterile areas, control of contamination and Good Warehousing Practice. 3 Analysis of raw materials, finished products, packaging materials, 12 in process quality control (IPQC), Developing specification (ICH Hrs Q6 and Q3), purchase specifications and maintenance of stores for raw materials.

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Product Development and Technology Transfer

PRODUCT DEVELOPMENT AND TECHNOLOGY TRANSFER (MQA 104T)

Scope

This deal with technology transfer covers the activities associated with Drug Substance, Drug Product and analytical tests and methods, required following candidate drug selection to completion of technology transfer from R&D to the first receiving site and technology transfer related to post-marketing changes in manufacturing places.

Objectives

Upon completion of this course the student should be able to To understand the new product development process

- To understand the necessary information to transfer technology from R&D to actual manufacturing by sorting out various information obtained during R&D
- To elucidate necessary information to transfer technology of existing products between various manufacturing places

THEORY

60 Hrs

- Principles of Drug discovery and development: Introduction, 12 Clinical research process. Development and informational content for Investigational New Drugs Application (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA), Supplemental New Drug Application (SNDA), Scale Up Post Approval Changes (SUPAC) and Bulk active chemical Post approval changes (BACPAC), Post marketing surveillance, Product registration guidelines - CDSCO, USFDA.
- 2 Pre-formulation studies: Introduction/concept, organoleptic 12 properties, purity, impurity profiles, particle size, shape and surface area. Solubility, Methods to improve solubility of Drugs: Surfactants & its importance, co-solvency. Techniques for the study of Crystal properties and polymorphism. Pre-formulation protocol, Stability testing during product development.
- 3 Pilot plant scale up: Concept, Significance, design, layout of 12 pilot plant scale up study, operations, large scale manufacturing Hrs techniques (formula, equipment, process, stability and quality control) of solids, liquids, semisolid and parenteral dosage forms. New era of drug products: opportunities and challenges.

120

4	Pharmaceutical packaging: Pharmaceutical dosage form and their packaging requirments, Pharmaceutical packaging materials,	12 Hrs
	Medical device packaging, Enteral Packaging, Aseptic packaging systems, Container closure systems, Issues facing modern drug packaging, Selection and evaluation of Pharmaceutical packaging materials.	
5	Quality control test: Containers, closures and secondary packing materials.	
2	Technology transfer: Development of technology by R & D, Technology transfer from R & D to production, Optimization and Production, Qualitative and quantitative technology models. Documentation in technology transfer: Development report, technology transfer plan and Exhibit.	12 Hrs

REFERENCES

- The process of new drug discovery and development. I and II Edition (2006) by Charles G. Smith, James T and O. Donnell. CRC Press, Group of Taylor and Francis.
- Leon Lac Lachman, Herbert A. Liberman, Theory and Practice of Industrial Pharmacy. Marcel Dekker Inc. New York.
- Sidney H Willing, Murray M, Tuckerman. Williams Hitchings IV, Good manufacturing of pharmaceuticals (A Plan for total quality control) 3rd Edition. Bhalani publishing house Mumbai.
- Tablets Vol. I, II, III by Leon Lachman, Herbert A. Liberman, Joseph B. Schwartz, 2nd Edn. (1989) Marcel Dekker Inc. New York.
- Text book of Bio- Pharmaceutics and clinical Pharmacokinetics by Milo Gibaldi, 3rd Edn, Lea & Febriger, Philadelphia.
- Pharmaceutical product development. Vandana V. Patrevale. John I. Disouza. Maharukh T.Rustomji. CRC Press, Group of Taylor and Francis.
- Dissolution, Bioavailability and Bio-Equivalence by Abdou H.M. Mack Publishing company, Eastern Pennsylvania.
- Remingtons Pharmaceutical Sciences, by Alfonso & Gennaro, 19th Edn.(1995)OO2C Lippincott; Williams and Wilkins A Wolters Kluwer Company, Philadelphia.
- 9. The Pharmaceutical Sciences; the Pharma Path way 'Pure and applied Pharmacy' by D. A Sawant, Pragathi Books Pvt. Ltd.
- 10. Pharmaceutical Packaging technology by D.A. Dean. E.R. Evans, I.H. Hall. 1st Edition(Reprint 2006). Taylor and Francis. London and New York.

QUALITY ASSURANCE PRACTICAL - I (MQA 105P)

PRACTICALS

- 1. Analysis of Pharmacopoeial compounds in bulk and in their formulations (tablet/ capsules/ semisolids) by UV Vis spectrophotometer
- 2. Simultaneous estimation of multi-drug component containing formulations by UV spectrophotometry
- 3. Experiments based on HPLC
- 4. Experiments based on Gas Chromatography
- 5. Estimation of riboflavin/quinine sulphate by fluorimetry
- 6. Estimation of sodium/potassium by flame photometry or AAS
- 7. Case studies on
 - Total Quality Management
 - Six Sigma
 - · Change Management/ Change control. Deviations,
 - Out of Specifications (OOS)
 - Out of Trend (OOT)
 - Corrective & Preventive Actions (CAPA)
 - Deviations
- 8. Development of Stability study protocol
- 9. Estimation of process capability
- In process and finished product quality control tests for tablets, capsules, parenterals and semisolid dosage forms.
- 11. Assay of raw materials as per official monographs
- 12. Testing of related and foreign substances in drugs and raw materials
- 13. To carry out pre formulation study for tablets, parenterals (2 experiment).
- 14. To study the effect of pH on the solubility of drugs, (1 experiment)
- 15. Quality control tests for Primary and secondary packaging materials
- 16. Accelerated stability studies (1 experiment)
- 17. Improved solubility of drugs using surfactant systems (1 experiment)
- 18. Improved solubility of drugs using co-solvency method (1 experiment)
- 19. Determination of Pka and Log p of drugs.

HAZARDS AND SAFETY MANAGEMENT

HAZARDS AND SAFETY MANAGEMENT (MQA 201T)

Scope

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

Objectives

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

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

THEORY

60Hrs 1. Multidisciplinary nature of environmental studies: Natural 12 Resources, Renewable and non-renewable resources, Natural Hrs resources and associated problems, a) Forest resources; b) Water resources; c) Mineral resources; d) Energy resources; e) Land resources Ecosystems: Concept of an ecosystem and Structure and function of an ecosystem. Environmental hazards: Hazards based on Air, Water, Soil and Radioisotopes. 2 Air based hazards: Sources, Types of Hazards, Air circulation 12

- maintenance industry for sterile area and non sterile area, Hrs Preliminary Hazard Analysis (PHA) Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system.
- Chemical based hazards: Sources of chemical hazards, 12 3 Hazards of Organic synthesis, sulphonating hazard, Organic Hrs solvent hazard, Control measures for chemical hazards,

131

	Management of combustible gases, Toxic gases and Oxygen displacing gases management, Regulations for chemical hazard, Management of over-Exposure to chemicals and TLV concept.	
4	Fire and Explosion: Introduction, Industrial processes and hazards potential, mechanical electrical, thermal and process hazards. Safety and hazards regulations, Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system mechanical and chemical explosion, multiphase reactions, transport effects and global rates. Preventive and protective management from fires and explosion- electricity passivation, ventilation, and sprinkling, proofing, relief systems -relief valves, flares, scrubbers.	
5	Hazard and risk management: Self-protective measures against workplace hazards. Critical training for risk management, Process of hazard management, ICH guidelines on risk assessment and Risk management methods and Tools Factory act and rules, fundamentals of accident prevention, elements of safety programme and safety management, Physicochemical measurements of effluents, BOD, COD, Determination of some contaminants, Effluent treatment procedure, Role of emergency services.	

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

PHARMACEUTICAL VALIDATION

PHARMACEUTICAL VALIDATION (MQA 202T)

Scope

The main purpose of the subject is to understand about validation and how it can be applied to industry and thus improve the quality of the products. The subject covers the complete information about validation, types, methodology and application.

Objectives

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

- The concepts of calibration, qualification and validation
- The qualification of various equipments and instruments
- Process validation of different dosage forms
- Validation of analytical method for estimation of drugs
- Cleaning validation of equipments employed in the manufacture of pharmaceuticals

THEORY

60 Hrs

- Introduction to validation: Definition of Calibration, Qualification 10 and Validation, Scope, frequency and importance. Difference between calibration and validation. Calibration of weights and measures. Advantages of Validation, scope of Validation, Organization for Validation, Validation Master plan, Types of Validation, Streamlining of qualification & Validation process and Validation Master Plan. Qualification: User requirement specification, Design qualification, Factory Acceptance Test (FAT)/Site Acceptance Test (SAT), Installation qualification, Operational qualification, Performance qualification, Re-Qualification (Maintaining status-Calibration Preventive Maintenance, Change management).
- 2 Qualification of manufacturing equipment: Dry Powder 10 Mixers, Fluid Bed and Tray dryers, Tablet Compression Hrs (Machine), Dry heat sterilization/Tunnels, Autoclaves, Membrane filtration, Capsule filling machine. Qualification of analytical instruments: UV-Visible

spectrophotometer, FTIR, DSC, GC, HPLC, HPTLC, LC-MS.

3	Qualification of laboratory equipments: Hardness tester, Friability test apparatus, tap density tester, Disintegration tester, Dissolution test apparatus Validation of Utility systems: Pharmaceutical water system & pure steam, HVAC system, Compressed air and nitrogen.	10 Hrs
4	Process Validation: Concept, Process and documentation of Process Validation. Prospective, Concurrent & Retrospective Validation, Re validation criteria, Process Validation of various formulations (Coated tablets, Capsules, Ointment/Creams, Liquid Orals and aerosols.), Aseptic filling: Media fill validation, USFDA guidelines on Process Validation- A life cycle approach. Analytical method validation: General principles, Validation of analytical method as per ICH guidelines and USP.	10 Hrs
5	Cleaning Validation: Cleaning Method development, Validation of analytical method used in cleaning, Cleaning of Equipment, Cleaning of Facilities. Cleaning in place (CIP). Validation of facilities in sterile and non-sterile plant. Computerized system validation: Electronic records and digital signature - 21 CFR Part 11 and GAMP	10 Hrs
6	General Principles of Intellectual Property: Concepts of Intellectual Property (IP), Intellectual Property Protection (IPP), Intellectual Property Rights (IPR); Economic importance, mechanism for protection of Intellectual Property -patents, Copyright, Trademark; Factors affecting choice of IP protection; Penalties for violation; Role of IP in pharmaceutical industry; Global ramification and financial implications. Filing a patent applications; patent application forms and guidelines. Types patent applications-provisional and non provisional, PCT and convention patent applications; International patenting requirement procedures and costs; Rights and responsibilities of a patente; Practical aspects regarding maintaining of a Patent file; Patent infringement meaning and scope. Significance of transfer technology (TOT), IP and ethics-positive and negative aspects of IPP; Societal responsibility, avoiding unethical practices.	

AUDITS AND REGULATORY COMPLIANCE

AUDITS AND REGULATORY COMPLIANCE (MPA 203T)

Scope

This course deals with the understanding and process for auditing in pharmaceutical industries. This subject covers the methodology involved in the auditing process of different in pharmaceutical industries.

Objectives

Upon completion of this course the student should be able to

- To understand the importance of auditing
- To understand the methodology of auditing
- To carry out the audit process
- To prepare the auditing report
- To prepare the check list for auditing

THEORY

60 Hrs

- Introduction: Objectives, Management of audit, Responsibilities, 12 Planning process, information gathering, administration, Hrs Classifications of deficiencies
- 2 Role of quality systems and audits in pharmaceutical 12 manufacturing environment: cGMP Regulations, Quality Hrs assurance functions, Quality systems approach, Management responsibilities, Resource, Manufacturing operations, Evaluation activities, Transitioning to quality system approach, Audit checklist for drug industries.
- 3 Auditing of vendors and production department: Bulk 12 Pharmaceutical Chemicals and packaging material Vendor audit, Hrs Warehouse and weighing, Dry Production: Granulation, tableting, coating, capsules, sterile production and packaging.
- 4 Auditing of Microbiological laboratory: Auditing the 12 manufacturing process, Product and process information, General Hrs areas of interest in the building raw materials, Water, Packaging materials.
- 5 Auditing of Quality Assurance and engineering department: 12 Quality Assurance Maintenance, Critical systems: HVAC, Water, Hrs Water for Injection systems, ETP.

REFERENCES

- Compliance auditing for Pharmaceutical Manufacturers. Karen Ginsbury and Gil Bismuth, Interpharm/CRC, Boca Raton, London New York, Washington D.C.
- Pharmaceutical Manufacturing Handbook, Regulations and Quality by Shayne Cox Gad. Wiley-Interscience, A John Wiley and sons, Inc., Publications.
- Handbook of microbiological Quality control. Rosamund M. Baird, Norman A. Hodges, Stephen P. Denyar. CRC Press. 2000.
- Laboratory auditing for quality and regulatory compliance. Donald C. Singer, Raluca-loana Stefan, Jacobus F. Van Staden. Taylor and Francis (2005).

PHARMACEUTICAL MANUFACTURING TECHNOLOGY

PHARMACEUTICAL MANUFACTURING TECHNOLOGY (MQA 204T)

Scope

This course is designed to impart knowledge and skills necessary to train the students with the industrial activities during Pharmaceutical Manufacturing.

Objectives

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

- The common practice in the pharmaceutical industry developments, plant layout and production planning
- Will be familiar with the principles and practices of aseptic process technology, non sterile manufacturing technology and packaging technology.
- Have a better understanding of principles and implementation of Quality by design (QbD) and process analytical technology (PAT) in pharmaceutical manufacturing

THEORY

60 Hrs

- Pharmaceutical industry developments: Legal requirements 12 and Licenses for API and formulation industry, Plant location-Factors influencing.
 Plant layout: Factors influencing, Special provisions, Storage space requirements, sterile and aseptic area layout.
 Production planning: General principles, production systems, calculation of standard cost, process planning, routing, loading, scheduling, dispatching of records, production control.
- 2 Aseptic process technology: Manufacturing, manufacturing 12 flowcharts, in process-quality control tests for following sterile dosage forms: Ointment, Suspension and Emulsion, Dry powder, Solution (Small Volume & large Volume). Advanced sterile product manufacturing technology : Area planning & environmental control, wall and floor treatment, fixtures and machineries, change rooms, personnel flow, utilities & utilities equipment location, engineering and maintenance. Process Automation in Pharmaceutical Industry: With specific reference to manufacturing of sterile semisolids, Small Volume Parenterals & Large Volume Parenterals (SVP & LVP), Monitoring of Parenteral manufacturing facility, Cleaning in Place (CIP),

Sterilization in Place (SIP), Prefilled Syringe, Powdered Jet, Needle Free Injections, and Form Fill Seal Technology (FFS). Lyophilization technology: Principles, process, equipment.

3 Non sterile manufacturing process technology: 12 Manufacturing, manufacturing flowcharts, in process-quality Hrs control tests for following Non-Sterile solid dosage forms: Tablets (compressed & coated), Capsules (Hard & Soft). Advance non-sterile solid product manufacturing technology: Process Automation in Pharmaceutical Industry with specific reference to manufacturing of tablets and coated products, Improved Tablet Production: Tablet production process, granulation and pelletization equipments, continuous and batch mixing, rapid mixing granulators, rota granulators, spheronizers and marumerisers, and other specialized granulation and drying equipments. Problems encountered. Coating technology: Process, equipments, particle coating,

fluidized bed coating, application techniques. Problems encountered.

- 4 Containers and closures for pharmaceuticals: Types, 12 performance, assuring quality of glass; types of plastics used, Hrs Drug plastic interactions, biological tests, modification of plastics by drugs; different types of closures and closure liners; film wrapper; blister packs; bubble packs; shrink packaging; foil / plastic pouches, bottle seals, tape seals, breakable seals and sealed tubes; quality control of packaging material and filling equipment, flexible packaging, product package compatibility, transit worthiness of package, Stability aspects of packaging. Evaluation of stability of packaging material.
- 5 Quality by design (QbD) and process analytical technology 12 (PAT): Current approach and its limitations. Why QbD is required, Hrs Advantages, Elements of QbD, Terminology: QTPP. CMA, CQA, CPP, RLD, Design space, Design of Experiments, Risk Assessment and mitigation/minimization. Quality by Design, Formulations by Design, QbD for drug products, QbD for Drug Substances, QbD for Excipients, Analytical QbD. FDA initiative on process analytical technology. PAT as a driver for improving quality and reducing costs: quality by design (QbD), QA, QC and GAMP. PAT guidance, standards and regulatory requirements.

QUALITY ASSURANCE PRACTICAL - II PRACTICALS

QUALITY ASSURANCE PRACTICAL - II PRACTICALS (MQA 205P)

- Organic contaminants residue analysis by HPLC
 Estimation of Metallic contaminants by Flame photometer
- 3. Identification of antibiotic residue by TLC
- 4. Estimation of Hydrogen Sulphide in Air.
- 5. Estimation of Chlorine in Work Environment.
- 6. Sampling and analysis of SO₂ using Colorimetric method
- 7. Qualification of following Pharma equipment
 - a.Autoclave
 - b.Hot air oven
 - c.Powder Mixer (Dry)
 - d.Tablet Compression Machine
- 8. Validation of an analytical method for a drug
- 9. Validation of a processing area
- 10. Qualification of at least two analytical instruments
- 11. Cleaning validation of one equipment
- 12. Qualification of Pharmaceutical Testing Equipment (Dissolution testing apparatus, Friability Apparatus, Disintegration Tester)
- 13. Check list for Bulk Pharmaceutical Chemicals vendors
- 14. Check list for tableting production.
- 15. Check list for sterile production area
- 16. Check list for Water for injection.
- 17. Design of plant layout: Sterile and non-sterile
- 18. Case study on application of QbD
- 19. Case study on application of PAT

UNIVERSITY GRANTS COMMISSION

Ability Enhancement Compulsory Course (AECC - Environment Studies)

Unit 1 : Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

Unit 2 : Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lectures)

(2 lectures)

Unit 3 : Natural Resources : Renewable and Non-renewable Resources

- Land resources and landuse change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water : Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(8 lectures)

(8 lectures)

Unit 4 : Biodiversity and Conservation

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

Unit 5 : Environmental Pollution

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management : Control measures of urban and industrial waste.
- Pollution case studies.

(8 lectures)

Unit 6 : Environmental Policies & Practices

• Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture

ion

- EnvironmentLaws: EnvironmentProtectionAct; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

Unit 7 : Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management : floods, earthquake, cyclones and landslides.
- Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

Unit 8 : Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

(Equal to 5 lectures)

Suggested Readings:

- 1. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
- 2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
- 3. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- 4. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- 5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- 6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339: 36-37.
- 7. McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29-64). Zed Books.
- 8. McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
- 9. Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
- 10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic Press.
- 11. Rao, M.N. & Datta, A.K. 1987. Waste Water Treatment. Oxford and IBH Publishing Co. Pvt. Ltd.
- 12. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
- 13. Rosencranz, A., Divan, S., & Noble, M. L. 2001. Environmental law and policy in India. Tripathi 1992.
- 14. Sengupta, R. 2003. Ecology and economics: An approach to sustainable development. OUP.
- 15. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
- 16. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
- 17. Thapar, V. 1998. Land of the Tiger: A Natural History of the Indian Subcontinent.
- 18. Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
- 19. Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
- 20. World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University Press.

(6 lectures)

(7 lectures)

SUBJECT CODE:LEE101						
SUBJECT: BUSINESS COMMUNICATION						
Teaching Scheme/Week		Examination Scheme				
Theory Hours	IA Marks	EA Marks	CA Marks	Total Marks	Credit s	
02	40	60		100	0	

	Hours	Marks
The Communication Process	06	15
Definition and importance of communication.		
	ation	
Formal and informal communication-		
Types of communication- Flow of communication		
(vertical, horizontal, lateral),		
Barriers to effective communication		
How to overcome communication barriers		
Oral communication	0 4	10
Advantages and disadvantages		
Articulation and delivery		
Making speeches and presentations		
Telephone etiquettes		
Standard phrases used in hotels and restaurants.		
Written communication	1 4	35
Advantages & disadvantages		
apology, Letter of order, Letterof application		
Letter		
of collection & sales		
Writing a logbook		
Paragraph structure		
Memos, notices, circulars		
Notes Making		
	The Communication Process Definition and importance of communication. Elements of communication/process of communic Formal and informal communication- Types of communication - Flow of communication (vertical, horizontal, lateral), Barriers to effective communication How to overcome communication barriers Oral communication Advantages and disadvantages Articulation and delivery Making speeches and presentations Telephone etiquettes Standard phrases used in hotels and restaurants. Written communication Advantages & disadvantages Letter of enquiry, Letterof complaint, Letter of apology, Letter of order, Letterof application Accompanied by bio-data, Letter of resignation, Letter of collection & sales Writing a logbook Paragraph structure Report writing (incidents,visits) Memos, notices, circulars	Definition and importance of communication.Elements of communication/process of communicationFormal and informal communication-Types of communication - Flow of communication(vertical, horizontal, lateral),Barriers to effective communication barriersOral communicationHow to overcome communication barriersOral communicationMaking speeches and disadvantagesArticulation and deliveryMaking speeches and presentationsTelephone etiquettesStandard phrases used in hotels and restaurants.Written communication14Advantages & disadvantagesLetter of enquiry, Letterof complaint, Letter ofapology, Letter of order, Letter of applicationAccompanied by bio-data, Letter of resignation, Letterof collection & salesWriting a logbookParagraph structureReport writing (incidents, visits)Memos, notices, circularsNotes Making

REFERENCE BOOKS

- 1 Technical Communication, an & Sharma, Oxford University Pres Principle sand Practice Meenakshi Raman, Sangeeta Sharma, Oxford University Press
- 2 Technical communication, Urmila Rai & S.M Rai, Himalaya Publication
- 3 Essentials of Technical Communication, Sunil Gokhale Himalaya

Publication

4 English Grammar & Composition, Wren & Martin, Orient Longman

SUBJECT CODE:LEE 101A					
SUBJECT: BUSINESS COMMUNICATION (PRACTICAL)					
Teaching Scheme/Week		Examination Scheme			
Practical Hours	IA Marks	EA Marks	CA Marks	Total Marks	Credit s
04*	20	30		50	02

Sr.No	Торіс
1	Self introduction.
2	Extempore onvarious topics
3	Presentations onvarious topics
4	Group Discussion.
5	Telephone etiquettes and hand ling telephones.
6	Practice of Standard phrases used in hotels and restaurants
7	Preparation for interviews.
8	Importance of Body language informal situations
9	Conduct of Meeting/briefing
10	Preparing Reports-Visit/incident
11	Presentation of Reports.
12	Formal Speeches
13	Reading
14	Vocabulary development
15	Debate
16	Book reading and Discussion

SUBJECT CODE:SEC101					
SUBJECT : PERSONALITY SKILLS FOR HOPITALITY INDUSTRY (THEORY)					
Teaching Scheme/Week	Examination Scheme				
Theory Hours	<mark>IA Marks</mark>	<mark>EA Marks</mark>			Credits
03	40	60	_	100	03

Rationale: The subject is designed to make students understand the concept and components of personality, thereby to apply the acquired knowledge towards achieving excellence in their respective academic careers.

		Hours	Mark
Chapter 1	Introduction to personality development	0 2	0 2
Chapter 2	Communication Skills	06	08
2.1	Modes of communication		
2.2	Verbal and Non-verbal communication		
2.3	Professional presentations(Types, Use of A/V aids)		
Chapter 3	Impression Management	06	06
3.1	Importance of Physical appearance and grooming (presentable and attractive appearance, dressing, make up, poise and		
3.2	posture)		
3.3	Importance of Physical Fitness		
	Body Language-Kinesics ,Haptics ,Vocalics ,Proxemics Chronemics		
Chapter 4	Personality profile and Self development	06	12
4.1	Elements of persnality		
4.2	Determinants of persnality		
4.3	Personal goal setting and action plan		
4.4	Areas of self developement		
4.5	Self Analysis (Self esteem, Motivation, Attitude)		
4.6	SWOT Analysis- Concept		
Chapter 5	Time Management	04	04
5.1	Time Planning 1		
5.2	Time Quadrant model		
5.3	Time Wasters and		
	Robbers		
0.0	Robbers		

Chapter 6	Emotions	04	06
6.1	What are emotions		
6.2	Emotions and personality		
6.3	Emotional Stability		
6.4	Emotional Maturity		
6.5	Emotional Intelligence		
Chapter 7	Ethics	04	06
7.1	Introduction to Ethics and values		
7.2	Code of ethics		
7.3	Ethics and positive Human relationship		
7.4	Function of values		
7.5	Sets of value for harmonious life		
Chapter 8	Skill development for personality enrichment	08	08
8.1	Identifying general and specific skills		
8.2	Human Skills		
8.3	Cognitive skills		
8.4	Technical skills		
8.5	Listening Skills		
8.6	Practical skills		
Chapter 9	Stress Management	04	04
9.1	Introduction		
9.2	Management strategies		
9.3	Stress managers		
9.4	Stress control		
-	Frustration	04	04
10.1	Introduction		
10.2	Causes of frustration		
10.3	Effects of frustration		
10.4	Solutions for avoiding frustration		

REFERENCE BOOKS:

Sr.No.	Name of the Book	Author	Publisher
1	Development of Generic Skills- I	K Sudesh	Nandu printers and publications
2	Development of Generic Skills- II	K Sudesh	Nandu printers and publications
 3	Development of Gegeric Skills	M K MALKE	Central techno
	2		Publication
4	Basic Managerial skills for all Human learning	E H Mcgrath	Prentice Hall, India

SUBJECT CODE: SEC 101 A SUBJECT : PERSONALITY SKILLS FOR HOSPITALITY INDUSTRY (PRACTICAL)					
Teaching Scheme/Wee k	Examination Scheme				
Practical hours	IA Marks	EA Marks	CA Marks	Total Marks	Credit s
04*	20	30		50	02

1. Development of proficiency in English

• Practice on spoken communication skills and testing voice and accent, voice clarity, voice modulation and intonation.

2 .Personal Introduction

• Developing an Understanding of Social Etiquettes.

3. Business manners and etiquettes

• To understand presenting oneself with finesse.

4. Debate

• To understand subject knowledge, oral and leadership skills.

5. Group Discussion

• To understand subject knowledge, oral and leadership skills.

6. Extempore

• To understand subject knowledge, oral and leadership skills.

7. Body Language

• Study of different pictorial expression of nonverbal communications and its analysis.

8. SWOT Analysis

- Self evaluation.
- Self discipline
- Recognition of one"s own limits and deficiencies.

Self Awareness. 3

9. Presentation skills

• To understand Preparing and delivery of presentation.

10. Time Management techniques

• To understand Time Quadrant model and its use.

11. Stress management techniques

• To identify factors that cause stress though questionnaire/games.

12. Listening skills

• To improve note making and listening skills.

13. Organizing a seminar

14. Guest lectures of hospitality professionals.

15. Field visits

• Field visits to various sectors of the hospitality industry as a learning experience for students.

16. Report writing on guest lectures and

field visits Assignment

- 1. Make a SWOT Analysis to identify your strength, weaknesses, opportunity and threats
- 2. Identify your areas of self development and plan a strategy to improve.
- 3. Identify qualities, traits of a eminent admired personality
- 4. Prepare a tree of life to understand personality determinants
- 5. Identify your values and prepare a code of ethics for yourself
- 6. Presentation on your role model in hospitality industry

All Diploma Course Division of Hours In Year

Sr No	Course	Month	Days	Total lectures	Total No of
		August	26 Days (2 Lectures)	in Month 52	lecture in
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
	Diploma in Merger and	December	15 Days (2 Lectures)	30	
1			26 Days (2 Lectures)	52	368 hr.
	Acquisition	January February		48	
			24 Days (2 Lectures)		
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30 Total lectures	Total No of
Sr No	Course	Month	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
	Diploma in Air and Space	December	15 Days (2 Lectures)	30	
2	Law	January	26 Days (2 Lectures)	52	368 hr.
	Law	February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
			15 Days (2 Lectures)	30	
		April	15 Days (2 Lectures)	Total lectures	Total No of
Sr No	Course	Month	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
_		December	15 Days (2 Lectures)	30	
3	Diploma in Media Law	January	26 Days (2 Lectures)	52	368 hr.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	Courco	Month	Dave	Total lectures	Total No of
SEINO	Course	wonth	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
4	Diploma in E-Learning, E-	December	15 Days (2 Lectures)	30	368 hr.
т	Litigation, and LPO	January	26 Days (2 Lectures)	52	500 111.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	Course	Month	Days	Total lectures	Total No of
			-	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
Ę	Diploma in Social	December	15 Days (2 Lectures)	30	268 hr

ر	Legislation	January	26 Days (2 Lectures)	52	JUO III.
	Legislation	February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
			15 Days (2 Lectures)	Total lectures	Total No of
Sr No	Course	Month	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
6	Diploma in Anti-Corruption	December	15 Days (2 Lectures)	30	368 hr.
O	Laws	January	26 Days (2 Lectures)	52	308 111.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	Course	Month	Days	Total lectures	Total No of
SINU	Course	WOITT	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
7	Diploma in Foreign	December	15 Days (2 Lectures)	30	368 hr.
7	Investment Laws	January	26 Days (2 Lectures)	52	500 111.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	Course	Month	Days	Total lectures	Total No of
			-	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
	Diploma in Alternative	October	26 Days (2 Lectures)	52	
8	Dispute Resolution	December	15 Days (2 Lectures)	30	368 hr.
	Systems	January	26 Days (2 Lectures)	52	
	,	February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	-			Total lectures	Total No of
	Course	Month	Days		
	Course		-	in Month	lecture in
	Course	August	26 Days (2 Lectures)	in Month 52	
	Course	August September	26 Days (2 Lectures) 26 Days (2 Lectures)	in Month 52 52	
		August September October	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures)	in Month 52 52 52	lecture in
9	Diploma in Intellectual	August September October December	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures)	in Month 52 52 52 52 30	
9		August September October December January	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures) 26 Days (2 Lectures)	in Month 52 52 52 30 52	lecture in
9	Diploma in Intellectual	August September October December January February	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 24 Days (2 Lectures)	in Month 52 52 52 30 52 48	lecture in
9	Diploma in Intellectual	August September October December January February March	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures) 26 Days (2 Lectures) 24 Days (2 Lectures) 26 Days (2 Lectures)	in Month 52 52 52 30 52 48 52	lecture in
	Diploma in Intellectual Property Laws	August September October December January February March April	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures) 26 Days (2 Lectures) 24 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures)	in Month 52 52 52 30 52 48 52 48 52 30	lecture in 368 hr.
9 Sr No	Diploma in Intellectual	August September October December January February March	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures) 26 Days (2 Lectures) 24 Days (2 Lectures) 26 Days (2 Lectures)	in Month 52 52 52 30 52 48 52 48 52 30 Total lectures	368 hr. Total No of
	Diploma in Intellectual Property Laws	August September October December January February March April	26 Days (2 Lectures) 26 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures) 26 Days (2 Lectures) 24 Days (2 Lectures) 26 Days (2 Lectures) 15 Days (2 Lectures)	in Month 52 52 52 30 52 48 52 48 52 30	lecture in 368 hr.

	1	October	26 Days (2 Lectures)	52	
		December	15 Days (2 Lectures)	30	
10	Diploma in Corporate Laws	January	26 Days (2 Lectures)	52	368 hr.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
		•		Total lectures	Total No of
Sr No	Course	Month	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
11	Dialomo in Cubor Louis	December	15 Days (2 Lectures)	30	368 hr.
11	Diploma in Cyber Laws	January	26 Days (2 Lectures)	52	308 11.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	Course	Month	Days	Total lectures	Total No of
51 100	Course		-	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
	12 Diploma in Taxation Laws	October	26 Days (2 Lectures)	52	
12		December	15 Days (2 Lectures)	30	368 hr.
		January	26 Days (2 Lectures)	52	
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
Sr No	Course	Month	Days	Total lectures	Total No of
		August	26 Days (2 Lectures)	in Month 52	lecture in
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
		December	15 Days (2 Lectures)	30	·
13	Diploma in Labour Laws	January	26 Days (2 Lectures)	52	368 hr.
		, February	24 Days (2 Lectures)	48	
		, March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	
C. No.	Caura			Total lectures	Total No of
Sr No	Course	Month	Days	in Month	lecture in
		August	26 Days (2 Lectures)	52	
		September	26 Days (2 Lectures)	52	
		October	26 Days (2 Lectures)	52	
14	Diploma in Human Rights	December	15 Days (2 Lectures)	30	368 hr.
14		January	26 Days (2 Lectures)	52	500 111.
		February	24 Days (2 Lectures)	48	
		March	26 Days (2 Lectures)	52	
		April	15 Days (2 Lectures)	30	

BBT 110: General Course I Elective; Option I – Yoga & Meditation Total General Course I; 2 Credits, 20L/Act.

As a school of philosophy, Yoga is a way of life, and incorporates its own epistemology, metaphysics, ethical practices, systematic exercises and self-development techniques for body, mind and spirit. Yoga and meditation when practiced together strengthen the mind body connection, improving overall fitness and well-being. Many styles of yoga combine meditation with the physical routines, which use controlled breathing throughout the yoga poses. Meditation is practiced by relaxing, clearing your mind and concentrating on controlled breathing. Both yoga and meditation, when used consistently, have proven health benefits. Meditation is also an effective stress reducer that is used to help reduce anxiety, panic disorders and agoraphobia, an anxiety disorder commonly seen in student life.

Unit I

- 1. Overview of history of yoga, its origin and claimed benefits
- 2. Aasana alignment and the human anatomy and physiology explained in connection with yoga techniques like pranayama and meditation teaching methodology with practice

Unit II

- 3. The science of meditation and current scientific research
- 4. What is medidation? Techniques of meditation
- 5. Different kinds of yoga
- 6. Overview of current styles, forms and purposes of meditation
- 7. Techniques for cultivation of inner calm, insight and wisdom through Yoga and meditation

References

- 1. Jeevanved. Shri Shri Anand Murtii. Anand Marg Publ. 1955
- 2. Yoga psychology. Shri Prabhat Ranjan Sarkar; Anand Marg Publ., Calcutta, India, ISBN 10 817251138; 1990.
- 3. Yoga for health. Avd Anandmitra, 1999.

BBT 210: General Course II: Elective; Option I – Human Values General Course II; 2 Credits,

Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who areable to face life and make it meaningful. There are different kinds of values like, ethical or moral values, doctrinal or ideological values, social values and aesthetic values. Values can be defined as broad preferences concerning appropriate courses of action or outcomes. As such, values reflect a person's sense of right and wrong or what "ought" to be.

The objectives of the course are:

- To lay a strong foundation in value education.
- To create awareness towards realizing self
- To inculcate in students the spirit of social responsibility
- To add value to human relations.
- To make students understand Salient values for life such as truth, commitment, honesty, integrity etc.

Unit I: Yam – Satya, Ahinsa, Brahmacharya, Asteya, Aparigraha

Value education-its purpose and significance in the present world –Holistic living – Balancing the outer and inner –Body, Mind and Intellectual level- Duties and responsibilities. Environment and Ecological balance –interdependence of all beings – living and non-living. The binding of man and nature – Environment conservation and enrichment.

Unit II: Niyam – Soch, Santosh, Tapa, Swadhyaya, Ishwar Pranidhan

- Social Evils Corruption, Cyber crime, Terrorism Alcoholism, Drug addiction – Dowry – Domestic violence – untouchability – female infanticide – atrocities against women-How to tackle them.
- Values for life : truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity, and inclusiveness, Self esteem and self confidence, punctuality – Time, task and resource management – Problem solving and decision making skills- Interpersonal and Intra personal relationship – Team work – Positive and creative thinking

References:

1. M.G.Chitakra: Education and Human Values, A.P.H.Publishing Corporation, New Delhi, 2003

2. Chakravarthy, S.K. : Values and ethics for Organizations: Theory and Practice, Oxford University Press, New Delhi , 1999.

3. Das, M.S. & Gupta, V.K. : Social Values among Young adults: A changing Scenario, M.D. Publications, New Delhi, 1995

4. Bandiste, D.D.: Humanist Values: A Source Book, B.R. Publishing Corporation, Delhi, 1999

BBT 309: General Course III, Elective; Option I - Communication Skills
and Personality Development
General Course III; 2 CreditsTotal
30 L

Preparation of presentation –principles and presentation technique (what, how, for whom etc).	3 L
Nonverbal communication during presentation – how to manage stress, what to do with hands, legs …, activating the audience with nonverbal communication	3 L
Verbal communication –argumentation, usable and unsuitable phrases Communication skills – listening, empathic reaction, how to question, stealing the show, opening door question	2 L 3 L
Conflict situation solving, attack from the audience – communication skills as a work experience, vicious circle of attack and defence	2 L
Work with audience – ice-breaking, get them in the mood, work with emotions, visualization tools, nonstandard situations	3 L
Improvisation and unprepared presentations	2 L
Paradigm of human cooperation – why there could be problems to start the communication and what to do with it	3 L
Defense against manipulation, how to say NO, stress management Image and etiquette	3 L 2 L
Basics of Personality (Definationetc), Theories of Personality Development	3 L
Analysing Strengths & weaknesses, Body Language & Preparation of Self Introduction	3 L

MBT 301: Environmental Biotechnology



Core Course- Theory; 3 Credits

UNIT I : Environment and Waste water treatment technology

- **1 Basic concepts,** Its ingredients soil, water, air, biota and non-biota and **3** its significance
- 2 Environmental issues, Environmental pollution Types, 4 measurement, effects on health & food, Air pollution and its control through Biotechnology, Water pollution and its control, Soil pollution sources, pesticides, heavy metals and agrochemical and its control, Noise pollution: effects and control, Degradation of Xenobiotic compounds in Environment
- 3 **Detection and control of micro-organisms** in environmental fresh **4** water, in source and drinking water; Potable and non-potable water Biosensors types and applications in environmental pollution detection and monitoring

UNIT II

- **4 Biological treatment:** stabilization pond, aerated lagoon, activated **2** sludge process, trickling filter anaerobic treatment
- **5** Sewage and waste water treatments systems; Primary, secondary and **3** tertiary treatments; Measurement of treatment efficiencies
- 6 Bioreactors for waste water treatments; Reactors types and design;
 3 Reactors in series; Development and optimization of membrane bioreactor process for use in sanitary and industrial sewage treatment Biological treatment: stabilization pond, aerated lagoon, activated sludge
 2 process, trickling filter anaerobic treatment

UNIT III

7 **Global Environmental Issues** 4 Solid waste Management, physicochemical characters, hazardous and non hazardous wastes, bio-degradable and non-biodegradable wastes, collection and transport of solid waste, composting, vermin-composting and methane production. 8 Global warming: climate change, ozone depletion, UV- B and green house 3 effects, acid rain, its effects Biotechnological approaches for solid waste management 9 3 **10** Carbon credit 1 Unit IV **Biotechnological approach for improving the Environment: 11** Characteristics of industrial effluents, Conventional treatments, kinetics 2 of biodegradation of waste, Advances in aerobic and anaerobic treatments, genetically modified organisms for improving the

environment, Techno-economic feasibility of conversion of waste into energy.

- 12Environmental pollution control- Bioremediation, Bioaugmentation,2Biostimulation and Phytoremediation
- 13 Desalination technique: Reverse osmosis, quality of input and output
 2 water, cost effectiveness, byproducts of desalination and industrial application
- **14** Biotechnological approach for improving the Environment:

2

- 15 Characteristics of industrial effluents, Conventional treatments, kinetics 2 of biodegradation of waste, Advances in aerobic and anaerobic treatments, genetically modified organisms for improving the environment, Techno-economic feasibility of conversion of waste into energy.
- 16Environmental pollution control- Bioremediation, Bioaugmentation,
Biostimulation and Phytoremediation2

References:

- **1.** Rittamann B. E. and Mc Carty P. L. (2001), Environmental Biotechnology: Principles and Applications, International Edition, McGraw-Hill, New York
- 2. Methods of Air Sampling & Analysis (1977), 2nd Edition APHA intersociety Committee APHA, Washington D.C
- **3.** Standard Methods for the Examination of Water and Wastewater (1986) 15th Edition APHA-AWWA-WPCF
- **4.** Brunner R.C., (1989), Hazardous Waste Incineration, McGraw Hill Inc.
- **5.** Milton Wainwright, An Introduction to Environmental Biotechnology, Kluwer Academic Publishers, Boston.Hardbound, 1999.

BBT 508 : Open Course V, Elective; Option II - Biodiversity	Total
Open Course V; 2 Credits	<mark>30L</mark>

UNIT I

- 1 **Introduction:** Plant Diversity: Introduction- definition, species diversity, 2 L ecosystem diversity, genetic diversity,
- 2The species & Individual in the Ecosystem2 L3Biodiversity and major Biomes of World1 L4Species extinction, population, individuals and genetic diversity2 L
- 5 Loss of biodiversity and its ecological significance 2 L

6	Extinct and Threatened species 1				
7	Threats to biodiversity	1 L			
8	Agrobiodiversity	2 L			
9	The Global biodiversity strategy and its significance for sustainable Agriculture	2 L			
UNI	ти				
10	 Conservation of Biodiversity: 2 Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values 				
11	Biodiversity at global, national and local levels	1 L			
12	Hot-sports of biodiversity 1 L				
13	Endangered, and endemic Species; threatened species; Categories of IUCN,threatened species of plants and animals in Northeast India, Red data books	3 L			
14	Conservation of biodiversity: In-situ and Ex-situ conservation of	2 L			
15	biodiversity Future strategy for the conservation of biological diversity	2 L			
16	Biodiversity conservation: Indian Scenario	1 L			
17	Biodiversity conservation:value addition through Biotechnology	2 L			
	References				
	 BharuchaErach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad –380 013, India, Email:mapin@icenet.net (R) 				

- 2 U Kumar and Mahendra J A, Biodiversity Principles and conservations, (2007), Agrobios India Pvt. Ltd., Jodhpur
- 3 Kevin J Gaston and John I Spicer, Biodiversity an introduction (2004), Blackwell Publications, USA
- 4 G. K. Singh, Biodiversity, Taxonomy and Ecology, (2009), ALP Books, New Delhi
- 5 Heywood, V.H &Waston, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.

BBT 209: Open Course II: Elective; Option II - <u>Gardening and</u> <u>Landscaping</u>, Open Course II; 2 Credits

UNIT I

- 1 Scope and objectives of gardening
- 2 Style of gardens: Formal, Informal
- 3 Types of gardens: English, Mughal and Japanese
- 4 Components of garden
- 5 Planning of Indoor /outdoor gardens:
- 6 Residential, Larger Home Garden, Roof Garden, Terrace Garden, Children's garden, School and Institutional Garden, Park, Industrial garden, Housing complex, Hanging garden
- 7 Nursery production and management
- 8 Propagation of ornamental plants by seeds, layering, cuttings, grafting, budding & tissue culture.
- 9 Annuals & Biennials: Important Genera and Species, their importance in garden designs
- 10 Orchids: Environment, propagation, potting & compost, nutrient supply, watering important species

UNIT II

- 1 Landscape Design: Definition, objectives and scope, Landscape elements of construction and designing of Residential, Commercial, Bungalow, Public area, Hotel, Educational Institute and religious places
- 2 Computer application in landscape
- 3 Palms and Cycas: Characteristics, propogation, culture, pest and disease, importance and uses, genera and species of palms and Cycas.
- 4 Bamboo and conifers: Genera, species and varieties Shrubs: Different types
- 5 Climbers and Bougainvillea: Different types Hedges for gardens & farms
- 6 Lawns & Grasses: Planting methods, maintain Herb garden, Rose garden, Bog garden, Sunken garden, Topiary garden, Kitchen garden, Paved garden, Dish garden, Rock garden, Terrace garden, Water garden & Bottle garden (Terrarium)
- 7 Field Visit: Visit to various gardens (public and private) and plant nurseries

References:

- 1) Christine Wein-Ping Yu 1987. Computer-aided Design: Application to ConceptualThinking in Landscape Architecture. amazon.com
- 2) Arora J S (1990). Introductory Ornamental Horticulture, Kalyani Publication.
- 3) Bailey L H 1901. The Standard cyclopedia of Horticulture, volume ,2 and 3 Macmillan Publications.
- 4) Bose T K and Mukerjee D 1987, Gardening in India, Oxford Book House
- 5) Sue Wilson (Editor) É & F. N. Spon. 2001 Guidelines for Landscape and Visual Impact Assessment.

BBT 309: General Course III, Elective; Option I - <u>Communication Skills</u> and Personality Development General Course III; 2 Credits

Total 30 L

Preparation of presentation –principles and presentation technique (what, how, for whom etc).	3 L	
Nonverbal communication during presentation – how to manage stress, what to do with hands, legs, activating the audience with nonverbal communication	3 L	
Verbal communication – argumentation, usable and unsuitable phrases	2 L	
Communication skills – listening, empathic reaction, how to question, stealing the show, opening door question	3 L	
Conflict situation solving, attack from the audience – communication skills as a work experience, vicious circle of attack and defence	2 L	
Work with audience – ice-breaking, get them in the mood, work with emotions, visualization tools, nonstandard situations	3 L	
Improvisation and unprepared presentations	2 L	
Paradigm of human cooperation – why there could be problems to start the communication and what to do with it	3 L	
Defense against manipulation, how to say NO, stress management	3 L	
image and etiquette	2 L	
Basics of Personality (Definationetc), Theories of Personality Development	3 L	
Analysing Strengths & weaknesses, Body Language & Preparation of Self Introduction	3 L	



Stallch

PRINCIPAL Bharati Vidyapeeth (Deemed to be University) Rajiv Gandhi Institute of I.T. & B.T. Pune Satara Road, Pune - 411 046.

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Grant-in-Aid Agreement

This Grant-in-Aid Agreement ("GIA Agreement") is made and entered into on this 30 day of June, 2020 ("Effective Date "),

BETWEEN

Tata Power Community Development Trust, a Trust duly registered under the Bombay Public Trusts Act 1950, vide Registration number E - 25632 with its registered office at Bombay House, 24, Homi Mody Street, Mumbai 400001(hereinafter referred to as **TPCDT** which expression shall unless repugnant to the context thereof be deemed to mean and include its successors and assigns), of the ONE PART;

AND

Bharati Vidyapeth(Pune), a non-profit organization registered as Registered with Charities Commissioner, registration number 90186 under the Societies Registration Act 1860 with its registered office Social Sciences Centre, FIELD8 Dr. G. R. Rathod having current and valid Income tax 12AA registration certificate for tax exemption and 80G tax Deduction certificate, hereinafter referred to as Bharati Vidyapeth(Pune) which expression shall unless repugnant to the context thereof be deemed to mean and include its successors and permitted assigns), of the OTHER PART.

(Hereinafter **TPCDT** and **Bharati Vidyapeth(Pune)** shall be individually referred to as "**the Party**" and collectively as "**the Parties**")

WHEREAS:

- a) TPCDT is, inter alia, engaged in non-profit & community development initiatives under 5 thrust areas namely Education, Health & Sanitation, Livelihood & Employability, Water and Financial Inclusion, and is a key facilitator that supports developmental projects across identified locations to create and offer sustainable solutions to the diverse challenges faced by local communities.
- b) Bharati Vidyapeth(Pune) is a non-profit organization based out of Pune (Maharashtra) working in the field of Livelihood & Skill Building. The NGO works in the states of Maharashtra. The mission is to Social transmission through dynamic education. The average annual gross contribution received by the NGO for last three years amount Rs 5Cr. The NGO operates at locations such as Social Sciences Centre, BharatiVidyapeeth Deemed University, Erandawane, Pune-411038 in the thrust areas of Education, Health and livelihood and employability.

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- c) Bharati Vidyapeth(Pune) has submitted a proposal dated 14-May-2020 to TPCDT for conducting Micro Enterprises for Women (DHAAGA) and same forms part of GIA Agreement and is marked as Annex - 3
- d) TPCDT is desirous of being partner in the Intervention to be implemented by Bharati Vidyapeth(Pune) The scope of the intervention and funding are as detailed and forms part of this GIA Agreement
- e) Bharati Vidyapeth(Pune) would not sublet or delegate any of the project activities as part of this GIA Agreement.
- f) Believing the aforesaid to be true, and in furtherance of its Mission & Objectives, TPCDT has agreed to engage Bharati Vidyapeth(Pune), through this GIA Agreement, as the implementing agency to Micro Enterprises for Women (DHAAGA)

NOW THEREFORE, in consideration of the mutual covenants, terms and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties, agree as follows:

1. INTERVENTION & ADMINISTRATION

- a) Intervention Title: Micro Enterprises for Women (DHAAGA)
- b) <u>Scope</u>: Women will be linkages for financial resources with Government scheme.
- c) Project Objectives: 400 women (rom Mulshi block will be (inancially independentFIELD15, Sec-B,4)
- d) Project Timelines: From 01-Apr-2020 to 31-Mar-2021
- e) Name of Collaborating Organizations:
- f) Bharati Vidyapeth(Pune) is the implementing organization for this Project.
- g) TPCDT is the non-profit organization, which would be funding this Project, by way of Grant-in-Aid in furtherance of developmental objects.

2. PROJECT LOCATION:

- a) State & District Maharahstra & Pune
- b) Revenue Block Mulshi
- c) Gram Panchayat or Ward Maley
- d) No of Villages or Ward Mohallas 15 covered
- e) Beneficiaries potentially covered through this project 400 (Refer Annex-3, Sec-B-6)
- f) SC & ST Beneficiaries as 20 % of above (No.), covered through this intervention.

3. THE WORKING RELATIONSHIP:

The bipartite collaboration would be guided by the following mutually agreed principles:

- a) All the parties shall ensure transparency and accountability in all activities undertaken as a part of the intervention.
- b) The parties shall encourage adoption of a scientific, rational, democratic, bottoms-up, community needs-based approach to the issues addressed.
- c) The parties shall encourage the use of technology-based interventions for higher impacts, outreach and outcomes.
- d) Each stakeholder to designate Single Point of Contact (SPoC) for effective coordination during the project execution.

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4. INTERVENTION TERM AND WORKPLAN

- a) The intervention shall be implemented in accordance with GIA Agreement and the intervention proposal set out in Aannexure-3.
- b) **Bharati Vidyapeth(Pune)** shall forthwith notify TPCDT in writing in the event of the occurrence of any event that may cause delay in achieving the intervention delivery milestone.
- c) The terms of the intervention under this GIA Agreement of FY-19.
- d) The work plan in terms of (NGO name) deliverables with timelines mentioned in (Annexure-3, Sec B-8)

5. INTERVENTION BUDGET/PARTNERS NAME & PAYMENT TERMS:

- a) TPCDT has sanction to **Bharati Vidyapeth(Pune)** a Grant-in-Aid of **1300000.0** (Indian Rupees **Thirteen Lakhs only** for the Project to be undertaken by **Bharati Vidyapeth(Pune)** in relation to Micro Enterprises for Women (DHAAGA) as "Authorized/Approved Activities")
- b) TPCDT shall deploy financial resources for the Term of this GIA Agreement up to a total cost of INR 130000.0 (Indian Rupees *Thirteen Lakhs only* only). (Annex-3 Sec-B-8) The Bharati Vidyapeth(Pune) agrees that the project management charges shall not exceed 10% of the total Grant-in-Aid (INR) Amount, and to that effect satisfies TPCDT.
- c) It is understood and agreed between the Parties that TPCDT's Grant-in-Aid to Bharati Vidyapeth(
 Pune), is with respect to the intervention as per KPIs mentioned in (Annex-2)

Installment number	Installment payment (in ሬ)	Installment Amount	Key Milestone (Annex-1)
1	25%	325000.0	On signing of GIA Agreement
2	30%	390000.0	On completion of agreed key deliverables mentioned in Annexure-1 and 80% utilization of 1st installment.
3	35%	455000.0	On Completion of 50% of Key performance indicators [Midline study] (Refer KPIs annex- 2) and 80% utilization of 2nd installment.
4	10%	130000.0	Completion of all initiatives, 80% utilization of 3rd installment, achieving 100% KPIs and submission of end line report.

d) Compliances & Schedule of Payments for Total Grant Amount of Rs: 1300000.0

- a) Bharati Vidyapeth(Pune) shall submit expenditure statements, indicating usage of 80% of first and consequent Grant installments, during course of the project based on actuals.
- b) Any cost escalation of the Project beyond the Grant in Aid Amount, committed hereinabove shall be borne by *Bharati Vidyapeth(Pune)*
- c) The pre-commissioning process shall start immediately after accepting and signing of the GIA Agreement between the Parties. Work shall be completed as per milestones and timelines defined in "Scope" part of this document jointly planned and agreed by both parties.
- d) Bharati Vidyapeth(Pune) shall submit program report for the immediate previous month in the reporting cycle by 5th of the month, along with relevant supporting documents to TPCDT.

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- e) Bharati Vidyapeth(Pune) shall submit financial report including expenses incurred for the immediate previous month in the reporting cycle of 1st to 31st calendar month, along with relevant supporting documents to TPCDT
- f) If TPCDT does not receive two consecutive progress reports (both programmatic and financial)it shall be at liberty to hold the project or hold further release of Grant-in-Aid Assistance agreed by TPCDT
- g) Bharati Vidyapeth(Pune) shall refund any unutilized Grant, to TPCDT at the end of a Project. Both Parties may discuss possibility of, and TPCDT may approve appropriate utilization of unutilized grants in a manner agreed by both Parties, with set timelines
- h) TPCDT has the sole authority to hold, stop or extend the Project timeline and Grant-in-Aid Amount.
- i) TPCDT provides Grants based on funding received annually from its Funders. In cases of multiyear programs, where the payments cross a financial year (31 March), the Grant Amounts made post this period may vary, depending on changes in funds and program directions/focus.

6. **<u>REPRESENTATIONS & WARRANTIES</u>**:

- a) Mutual Representations and Warranties Each Party represents and warrants to the other Party that:
 - i. It has the full right, power and authority to enter into this GIA Agreement, to Grant-in-Aid the rights Grant-in-Aided hereunder and to perform its obligations hereunder;
 - ii. The execution of this GIA Agreement by its representative whose signature is set forth at the end hereof has been duly authorized by all necessary action of the Party; and
 - iii. When executed and delivered by such Party, this GIA Agreement will constitute the legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms.
 - iv. For hardware and software, *Bharati Vidyapeth(Pune)* is solely responsible and accountable owner of the same.
 - v. The product warranties, any maintenance, repair or damage will be tracked by **Bharati** Vidyapeth(Pune)

b) Representations and Warranties of Bharati Vidyapeth(Pune)

<u>Bharati Vidyapeth(Pune)</u> represents and warrants to TPCDT that: The execution, delivery and performance of this GIA Agreement do not and shall not be inconsistent and violate any agreed obligation of <u>Bharati Vidyapeth(Pune)</u>;

- i. The Grant-in-Aid shall be directed only towards Authorized/ Approved Activities as set out;
- ii. From time to time, Mr./Ms. <u>Dilip Kawade</u> or any other nominee of TPCDT shall be invited to respective field locations or project locations, to undertake field visits, along with employees/representative of <u>Bharati Vidyapeth(Pune)</u> engaged in the Project
- iii. It shall furnish to TPCDT, copies of all necessary permissions and other necessary documents received from relevant government authorities and departments, conveying permission/ noobjection for covering the selected Project;
- iv. The resources received for this project shall be used for the Project objectives only and not for any commercial use. The resources shall be used, maintained and treated as a value to the respective projects;

7. USE OF TATA POWER LOGO FOR BRANDING:

g) This Intervention is being deployed under Tata Power Livelihood & Skill Building

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CSR Intervention. The logo of Tata Power and brand name of intervention can be used appropriately by *Bharati Vidyapeth(Pune)* within the scope of this intervention with mutual consent of both parties.

8. NO LIABILITY

- a) Bharati Vidyapeth(Pune) shall comply with all laws, regulations and also arrange to provide all the necessary approvals for carrying out all the plans agreed between the parties, for ensuring compliance of all applicable law, statutes for deployment as mentioned in this GIA Agreement. TPCDT shall not be liable in any manner whatsoever for any non-compliance in respect of the applicable laws, regulations and in the event of any adverse claim of whatsoever nature arising thereof, the entire burden shall be strictly borne by Bharati Vidyapeth(Pune).
- b) Nothing in this GIA Agreement is intended or shall be construed to authorize either Party to create or assume any liability or indebtedness of any kind in the name of, or on behalf of the other Party or to act for or be responsible for the performance of the other Party in any manner except and to the extent expressly provided in this GIA Agreement. Notwithstanding anything contrary contained herein the parties shall not be obliged to incur any liability in case of any of the parties shall without prior specific approval/ consent of the other parties' credit or accept any contract binding upon the parties other than as envisaged in this GIAA.

9. CONFIDENTIALITY

The parties agree that all data which is transmitted or communicated by either party to the other party shall in all cases be held in confidence by the Receiving Party and not disclosed to any third party unless written consent of Disclosing Party is first obtained, except that, Receiving Party has the right to disclose such information to its own employees, consultants and representatives who are bound by an obligation of confidentiality and who need to know such information for the purposes specified hereinabove. The Receiving Party agrees that it shall not use the confidential data for any purpose(s) other than the ones specified herein. However, the Receiving Party shall not be required to maintain confidential or be restricted in its use of any data which,

- i. Was in public domain at the date of disclosure to Receiving Party
- ii. Becomes public knowledge during the term of this GIA Agreement without breach of this GIA Agreement
- iii. Receiving Party can show that it was in its possession prior to disclosure by Disclosing Party, and
- iv. Disclosure of which is required by law or by order of a court of competent jurisdiction. The obligation as to confidentiality shall survive for 5 years post termination/ expiry of this GIA Agreement.

10. INTELLECTUAL PROPERTY RIGHTS (IPR)

With respect to the services rendered under this GIA Agreement, the Parties agree that:

- a) All IPR arising out of this GIA Agreement and the data, information or activities therein shall solely vest with **TPCDT**. Usage of any such data or information that involves the IPR for **TPCDT** shall amount to an infringement if such usage is not authorized in writing.
- b) **Bharati Vidyapeth(Pune)** agrees that it shall comply with all the relevant laws and shall not infringe in any IPR in the course of performing its obligations under this GIA Agreement.

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c) **Bharati Vidyapeth(Pune)** agreed to indemnify/ keep indemnified **TPCDT** from all claims, suits, actions, losses, penalties or liabilities arising out of a breach of the clauses above.

11. ETHICAL BEHAVIOUR:

- a) Bharati Vidyapeth(Pune) represent and warrant that it has conducted and shall conduct its business in accordance with the highest ethical standards and it shall comply with all applicable laws in the performance of its obligations under this GIA Agreement, including but not limited to, laws dealing with ethical business practices.
- b) If, at any time during the term of this GIA Agreement, Bharati Vidyapeth(Pune) is informed or information comes to its attention that it or any of its affiliates is or may be in violation of any applicable law (or if it is so determined by any court, tribunal or governmental agency or authority), Bharati Vidyapeth(Pune) shall immediately take all appropriate steps (including any reasonable requests by TPCDT) to remedy such violation and comply with such a law in all respects. Where such violation occurs and is not remedied TPCDT may terminate this GIA Agreement with immediate effect.
- c) Bharati Vidyapeth(Pune) shall establish and maintain all proper records (including accounting records) required by applicable law and shall make such records available to TPCDT, if requested to do so. A certified utilization certificate shall be issued at the end of any project.
- d) Bharati Vidyapeth(Pune) acknowledges of having read Tata Code of Conduct, accessed from Tata Power company website URL: <u>https://www.tatapower.com/pdf/aboutus/Tata-Code-Power-of-Conduct.pdf</u>
 Bharati Vidyapeth(Pune), as CSR Partner of Tata Power, acknowledges to comply with the guidelines given therein as part of upholding highest ethical standards during the deployment of this Project.

12. TERM, EXTENSION&TERMINATION/EXPIRY:

- a) This GIA Agreement shall commence as of the Effective date and shall remain in force until **31-Mar-2021**. Unless terminated earlier in accordance with the terms of this GIA Agreement. The Parties may renew this GIA Agreement on 'no cost to TPCDT" basis for a mutually agreed period if the situation so warrants, and the extension of period of agreement envisaged herein occasioned for the reasons not attributable to *Bharati Vidyapeth(Pune)*, for its non-performance or delay in performance.
- b) TPCDT shall have the right to terminate this GIA Agreement immediately, for any reason whatsoever without assigning any reason thereof.
- c) In the event of termination, the *Bharati Vidyapeth(Pune)* shall refund the unspent residual amount to TPCDT.

13. WAIVER:

No failure or delay by a party to exercise any right or remedy provided under this GIA Agreement or by law shall constitute a waiver of that or any other right or remedy, nor shall it preclude or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or any other right or remedy.

14. VARIATION:

Both the Parties agree and confirm that the terms and conditions contained in this GIA Agreement may be changed / altered through written mutual consent; at any point, during course of the Agreement. No variation of this GIA Agreement shall be effective unless it is in writing and signed by the Parties (or their Page 6 of 10

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15. SEVERANCE:

If any court or competent authority finds that any provision of this GIA Agreement(or part of any provision) is invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed to be deleted, and the validity and enforceability of the other provisions of this GIA Agreement shall not be affected.

16. THIRD PARTY RIGHTS:

No person other than a Party to this GIA Agreements shall have any rights to enforce any term of this GIA Agreement.

17. NO PARTNERSHIP OR AGENCY:

Nothing in this GIA Agreement is intended to, or shall be deemed to, establish any partnership or joint venture between the Parties, constitute either Party the agent of the other Party, nor authorise either Party to make or enter into any commitments for or on behalf of the other Party.

18. NOTICES:

All notices related to this GIA Agreement which are permitted hereunder shall be in writing and deemed to have been duly given/served if delivered personally or sent by facsimile transmission (with answerback received) or overnight express or by registered mail or certified mail, postage prepaid. All notices shall be sent to the addresses mentioned in the title clause or to such other address as the Parties may designate from time to time in writing.

19. FORCEMAJURE:

- a) Neither Party shall be liable to the other for any delay or failure in the performance by it of any obligation under this GIA Agreementto the extent affected, delayed or prevented by an event of Force Majeure, provided that the Party that is affected by the Force Majeure shall provide notice thereof to the other Party as soon as practicable, but in any event not later than 7 [seven] days from the time which the affected Party knew or should reasonably have known of the commencement of the event of Force Majeure.
- b) The affected Party shall use its reasonable endeavours to mitigate the adverse effects of the Force Majeure event affecting it and shall seek reasonable alternative means to resume the Services, to the extent not affected by the event of Force Majeure. The affected Party shall provide to the other Party reasonable details as requested by the other Party regarding the nature of the Force Majeure event. Neither Party shall be entitled to make any claim on the other for any fees, costs, expenses, losses or damages incurred or suffered as a result of an event of Force Majeure.
- c) If any event of Force Majeure continues beyond a period of one month, either Party may terminate this GIA Agreement.

20. ASSIGNMENT AND OTHER DEALINGS PROHIBITED:

This GIA Agreement is personal to the Parties and no Party shall, without the prior written consent of the other Party (such consent not to be unreasonably conditioned, withheld or delayed), assign, transfer, or deal in any other manner with this GIA Agreement or any of its rights and obligations under or arising out of this GIA Agreement, or purport to do any of the same. No Party shall sub-contract or delegate in any manner any

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or all of its obligations under this GIA Agreement to any third party or agent. Each Party that has rights under this GIA Agreement is acting on its own behalf and not for the benefit of another person.

21. ARBITRATION:

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Any dispute or differences arising out of or in connection with this GIA Agreement (including the validity or interpretation hereof) shall be referred to the sole arbitrator to be nominated by Parties and the arbitration shall be governed by the provisions of the Indian Arbitration & Conciliation Act, 1996 or any law relating to arbitration in force at the time of such reference. The venue of the arbitration shall be Mumbai. The parties submit to the exclusive jurisdiction of the Courts of Mumbai.

22. GOVERNING LAW AND JURISDICTION:

This GIA Agreement and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the laws of India. The parties irrevocably agree that the courts of Mumbai shall have exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with this GIA Agreement or its subject matter or formation (including non-contractual disputes or claims).

23. COUNTERPARTS:

This GIA Agreement may be executed in any number of counterparts, each of which when executed and delivered shall constitute an original of this GIA Agreement, but all the counterparts shall together constitute the same GIA Agreement. No counterpart shall be effective until each party has executed at least one counterpart.

24. ENTIRE AGREEMENT:

This GIA Agreement constitutes the entire agreement between the parties and supersedes all previous agreements between the parties relating to its subject matter.

IN WITNESS WHEREOF the Parties hereto have caused this GIA Agreementto be executed, in duplicate, by their duly authorized representatives on the date first written above.

For Bharati Vidyapeth(Pune)
Signature: Marhol
Name DIRECTOR
Rharati Viduana di
De(Detmed to be University) Social Science Centre(M.S.W)
Erandwane, Pune - 411 038.
Signature: And sanot
Name: Dr. Vijay Kulkarni CASSOciate Professor
(Associate Professor)



Grant-in-Aid Agreement

This Grant-in-Aid Agreement ("GIA Agreement") is made and entered into on this 15 day of June, 2020 ("Effective Date"),

BETWEEN

Tata Power Community Development Trust, a Trust duly registered under the Bombay Public Trusts Act 1950, vide Registration number E - 25632 with its registered office at Bombay House, 24, Homi Mody Street, Mumbai 400001(hereinafter referred to as **TPCDT** which expression shall unless repugnant to the context thereof be deemed to mean and include its successors and assigns), of the ONE PART;

AND

Bharati Vidyapeeth (*Pune***)**, a non-profit organization registered as **Registered with Charities Commissioner**, registration number**90186** under the **Societies Registration Act 1860** with its registered office **BVDU Social Sciences Centre, New Law College Building, Erandwane Campus, Pune 411 038**India, represented by its Trustee/Authorised Signatory **Dr. Ganesh R Rathod**having current and valid Income tax 12AA registration certificate for tax exemption and 80G tax Deduction certificate, hereinafter referred to as **Bharati Vidyapeeth (Pune)** which expression shall unless repugnant to the context thereof be deemed to mean and include its successors and permitted assigns), of the OTHER PART.

(Hereinafter **TPCDT** and **Bharati Vidyapeeth** (**Pune**) shall be individually referred to as "**the Party**" and collectively as "**the Parties**")

WHEREAS:

- a) TPCDT is, inter alia, engaged in non-profit & community development initiatives under 5 thrust areas namely Education, Health & Sanitation, Livelihood & Employability, Water and Financial Inclusion, and is a key facilitator that supports developmental projects across identified locations to create and offer sustainable solutions to the diverse challenges faced by local communities.
- b) Bharati Vidyapeeth (Pune) is a non-profit organization based out of Pune working in the field of Health & Sanitation. The NGO works in the states of MaharashtraThe mission is to To be world class university for social transmission through dynamic education linkages with employability on entrepreneurship especially women and adolescent girls..The average annual gross contribution received by the NGO for last three years amount Rs5Cr. The NGO operates at locations such as

Pune, Solapur, Sangli District of Maharashtra. in the thrust areas of Education, Health, Livelihood, Women Empowerment and Employability.

- c) Bharati Vidyapeeth(Pune) has submitted a proposal dated 15-May-2020 to TPCDT for conducting Integrated Community Health Care : Promote and sensitize preventive health care – Anemia, Malnutrition, Breast Feeding, Health Behavior Change Communication and same forms part of GIA Agreement and is marked as Annex- 3
- **d)** TPCDT is desirous of being partner in the Intervention to be implemented by Bharati Vidyapeeth (Pune)The scope of the intervention and funding are as detailed and forms part of this GIA Agreement
- e) *Bharati Vidyapeeth (Pune)*would not sublet or delegate any of the project activities as part of this GIA Agreement.
- f) Believing the aforesaid to be true, and in furtherance of its Mission & Objectives, TPCDT has agreed to engage Bharati Vidyapeeth (Pune), through this GIA Agreement, as the implementing agency to Integrated Community Health Care : Promote and sensitize preventive health care Anemia, Malnutrition, Breast Feeding, Health Behavior Change Communication

NOW THEREFORE, in consideration of the mutual covenants, terms and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties, agree as follows:

1. INTERVENTION & ADMINISTRATION

- a) <u>Intervention Title</u>: Integrated Community Health Care : Promote and sensitize preventive health care Anemia, Malnutrition, Breast Feeding, Health Behavior Change Communication
- b) <u>Scope</u>: To improve technical knowledge and counseling skill on Nutrition and Health from AWW & ANM/ASHA and Peer Educators from Mulshi and Mangaon Taluka of Pune and Raigad Districts.
- c) <u>Project Objectives</u>: To create awareness about COVID-19 virus, Anemia , Malnutrition and Health as well as Nutrition among 8500 villagers and Govt. Service providers. (Refer Annex-3, Sec-B,4)
- d) Project Timelines: From 01-Jun-2020 to 31-Mar-2021
- e) Name of Collaborating Organizations:
- f) Bharati Vidyapeeth (Pune) is the implementing organization for this Project.
- g) TPCDT is the non-profit organization, which would be funding this Project, by way of Grant-in-Aid in furtherance of developmental objects.

2. **PROJECT LOCATION:**

- a) State & District Maharashtra & Pune
- b) Revenue Block *Mulshi*
- c) Gram Panchayat or Ward *Mulshi (Kh)*
- d) No of Villages or Ward Mohallas **20** covered
- e) Beneficiaries potentially covered through this project **8500** (Refer Annex-3,Sec-B-6)
- f) SC & ST Beneficiaries as **20** % of above (No.), covered through this intervention.

3. THE WORKING RELATIONSHIP:

The bipartite collaboration would be guided by the following mutually agreed principles:

a) All the parties shall ensure transparency and accountability in all activities undertaken as a part of the intervention.

- b) The parties shall encourage adoption of a scientific, rational, democratic, bottoms-up, community needs-based approach to the issues addressed.
- c) The parties shall encourage the use of technology-based interventions for higher impacts, outreach and outcomes.
- d) Each stakeholder to designate Single Point of Contact (SPoC) for effective coordination during the project execution.

4. INTERVENTION TERM AND WORKPLAN

- a) The intervention shall be implemented in accordance with GIA Agreement and the intervention proposal set out in Aannexure-3.
- b) **Bharati Vidyapeeth (Pune)** shall forthwith notify TPCDT in writing in the event of the occurrence of any event that may cause delay in achieving the intervention delivery milestone.
- c) The terms of the intervention under this GIA Agreement of FY-19.
- d) The work plan in terms of (NGO name) deliverables with timelines mentioned in (Annexure-3, Sec B-8)

5. INTERVENTION BUDGET/PARTNERS NAME & PAYMENT TERMS:

- a) TPCDT has sanction to Bharati Vidyapeeth (Pune) a Grant-in-Aid of 600000.0 (Indian Rupees Six Lakhs for the Project to be undertaken by Bharati Vidyapeeth (Pune) in relation to Integrated Community Health Care : Promote and sensitize preventive health care Anemia, Malnutrition, Breast Feeding, Health Behavior Change Communication as "Authorized/Approved Activities")
- b) TPCDT shall deploy financial resources for the Term of this GIA Agreement up to a total cost of INR 600000.0 (Indian Rupees *Six Lakhs* only). (Annex-3 Sec-B-8) The Bharati Vidyapeeth (Pune) agrees that the project management charges shall not exceed 10% of the total Grant-in-Aid (INR) Amount, and to that effect satisfies TPCDT.
- c) It is understood and agreed between the Parties that TPCDT's Grant-in-Aid to Bharati Vidyapeeth (
 Pune), is with respect to the intervention as per KPIs mentioned in (Annex-2)
- d) Compliances & Schedule of Payments for Total Grant Amount of Rs: 600000.0

Installment number	Installment payment (in %)	Installment Amount	Key Milestone (Annex-1)
1	25%	150000.0	On signing of GIA Agreement
2	30%	180000.0	On completion of agreed key deliverables mentioned in Annexure-1 and 80% utilization of 1st installment.
3	35%	210000.0	On Completion of 50% of Key performance indicators [Midline study] (Refer KPIs annex-2) and 80% utilization of 2nd installment.
4	10%	60000.0	Completion of all initiatives, 80% utilization of 3rd installment, achieving 100% KPIs and submission of end line report.

- a) **Bharati Vidyapeeth (Pune)**shall submit expenditure statements, indicating usage of 80% of first and consequent Grant installments, during course of the project based on actuals.
- b) Any cost escalation of the Project beyond the Grant in Aid Amount, committed hereinabove shall be borne by *Bharati Vidyapeeth (Pune)*
- c) The pre-commissioning process shall start immediately after accepting and signing of the GIA Agreement between the Parties. Work shall be completed as per milestones and timelines defined in "Scope" part of this document jointly planned and agreed by both parties.
- d) **Bharati Vidyapeeth (Pune)**shall submit program report for the immediate previous month in the reporting cycle by 5th of the month, along with relevant supporting documents to TPCDT.
- e) **Bharati Vidyapeeth (Pune)**shall submit financial report including expenses incurred for the immediate previous month in the reporting cycle of 1st to 31st calendar month, along with relevant supporting documents to TPCDT
- f) If TPCDT does not receive two consecutive progress reports (both programmatic and financial)it shall be at liberty to hold the project or hold further release of Grant-in-Aid Assistance agreed by TPCDT
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- h) TPCDT has the sole authority to hold, stop or extend the Project timeline and Grant-in-Aid Amount.
- i) TPCDT provides Grants based on funding received annually from its Funders. In cases of multiyear programs, where the payments cross a financial year (31 March), the Grant Amounts made post this period may vary, depending on changes in funds and program directions/focus.

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 - i. It has the full right, power and authority to enter into this GIA Agreement, to Grant-in-Aid the rights Grant-in-Aided hereunder and to perform its obligations hereunder;
 - ii. The execution of this GIA Agreement by its representative whose signature is set forth at the end hereof has been duly authorized by all necessary action of the Party; and
 - iii. When executed and delivered by such Party, this GIA Agreement will constitute the legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms.
 - iv. For hardware and software, **Bharati Vidyapeeth** (**Pune**) is solely responsible and accountable owner of the same.
 - v. The product warranties, any maintenance, repair or damage will be tracked by **Bharati** Vidyapeeth (Pune)

b) <u>Representations and Warranties of *Bharati Vidyapeeth (Pune)*</u>

<u>Bharati Vidyapeeth (Pune)represents</u> and warrants to TPCDT that: The execution, delivery and performance of this GIA Agreement do not and shall not be inconsistent and violate any agreed obligation of **<u>Bharati Vidyapeeth (Pune)</u>**;

i. The Grant-in-Aid shall be directed only towards Authorized/ Approved Activities as set out;

- ii. From time to time, Mr./Ms.*Dilip Kawade*or any other nominee of TPCDT shall be invited to respective field locations or project locations, to undertake field visits, along with employees/representative of *Bharati Vidyapeeth (Pune)*engaged in the Project
- iii. It shall furnish to TPCDT, copies of all necessary permissions and other necessary documents received from relevant government authorities and departments, conveying permission/ noobjection for covering the selected Project;
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7. USE OF TATA POWER LOGO FOR BRANDING:

g) This Intervention is being deployed under Tata Power Health & Sanitation

CSR Intervention. The logo of Tata Power and brand name of intervention can be used appropriately by *Bharati Vidyapeeth (Pune)* within the scope of this intervention with mutual consent of both parties.

8. <u>NO LIABILITY</u>

- a) Bharati Vidyapeeth (Pune) shall comply with all laws, regulations and also arrange to provide all the necessary approvals for carrying out all the plans agreed between the parties, for ensuring compliance of all applicable law, statutes for deployment as mentioned in this GIA Agreement. TPCDT shall not be liable in any manner whatsoever for any non-compliance in respect of the applicable laws, regulations and in the event of any adverse claim of whatsoever nature arising thereof, the entire burden shall be strictly borne by Bharati Vidyapeeth (Pune).
- b) Nothing in this GIA Agreement is intended or shall be construed to authorize either Party to create or assume any liability or indebtedness of any kind in the name of, or on behalf of the other Party or to act for or be responsible for the performance of the other Party in any manner except and to the extent expressly provided in this GIA Agreement. Notwithstanding anything contrary contained herein the parties shall not be obliged to incur any liability in case of any of the parties shall without prior specific approval/ consent of the other parties' credit or accept any contract binding upon the parties other than as envisaged in this GIAA.

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- i. Was in public domain at the date of disclosure to Receiving Party
- ii. Becomes public knowledge during the term of this GIA Agreement without breach of this GIA Agreement
- iii. Receiving Party can show that it was in its possession prior to disclosure by Disclosing Party, and

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- b) **Bharati Vidyapeeth (Pune)** agrees that it shall comply with all the relevant laws and shall not infringe in any IPR in the course of performing its obligations under this GIA Agreement.
- c) **Bharati Vidyapeeth (Pune)** agreed to indemnify/ keep indemnified **TPCDT** from all claims, suits, actions, losses, penalties or liabilities arising out of a breach of the clauses above.

11. ETHICAL BEHAVIOUR:

- a) **Bharati Vidyapeeth (Pune)** represent and warrant that it has conducted and shall conduct its business in accordance with the highest ethical standards and it shall comply with all applicable laws in the performance of its obligations under this **GIA Agreement**, including but not limited to, laws dealing with ethical business practices.
- b) If, at any time during the term of this GIA Agreement, Bharati Vidyapeeth (Pune) is informed or information comes to its attention that it or any of its affiliates is or may be in violation of any applicable law (or if it is so determined by any court, tribunal or governmental agency or authority), Bharati Vidyapeeth (Pune) shall immediately take all appropriate steps (including any reasonable requests by TPCDT) to remedy such violation and comply with such a law in all respects. Where such violation occurs and is not remedied TPCDT may terminate this GIA Agreement with immediate effect.
- c) **Bharati Vidyapeeth (***Pune***)** shall establish and maintain all proper records (including accounting records) required by applicable law and shall make such records available to **TPCDT**, if requested to do so. A certified utilization certificate shall be issued at the end of any project.
- d) Bharati Vidyapeeth (Pune) acknowledges of having read Tata Code of Conduct, accessed from Tata Power company website URL: <u>https://www.tatapower.com/pdf/aboutus/Tata-Code-Power-of-Conduct.pdf</u>

Bharati Vidyapeeth (Pune), as CSR Partner of Tata Power, acknowledges to comply with the guidelines given therein as part of upholding highest ethical standards during the deployment of this Project.

12. TERM, EXTENSION&TERMINATION/EXPIRY:

- a) This GIA Agreement shall commence as of the Effective date and shall remain in force until **31-Mar-2021**. Unless terminated earlier in accordance with the terms of this GIA Agreement. The Parties may renew this GIA Agreement on 'no cost to TPCDT" basis for a mutually agreed period if the situation so warrants, and the extension of period of agreement envisaged herein occasioned for the reasons not attributable to *Bharati Vidyapeeth (Pune)*, for its non-performance or delay in performance.
- b) TPCDT shall have the right to terminate this GIA Agreement immediately, for any reason whatsoever without assigning any reason thereof.

c) In the event of termination, the *Bharati Vidyapeeth (Pune)*shall refund the unspent residual amount to TPCDT.

13. <u>WAIVER:</u>

No failure or delay by a party to exercise any right or remedy provided under this GIA Agreement or by law shall constitute a waiver of that or any other right or remedy, nor shall it preclude or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or any other right

14. VARIATION:

Both the Parties agree and confirm that the terms and conditions contained in this GIA Agreement may be changed / altered through written mutual consent; at any point, during course of the Agreement. No variation of this GIA Agreement shall be effective unless it is in writing and signed by the Parties (or their authorised representatives).

15. SEVERANCE:

If any court or competent authority finds that any provision of this GIA Agreement(or part of any provision) is invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed to be deleted, and the validity and enforceability of the other provisions of this GIA Agreement shall not be affected.

16. THIRD PARTY RIGHTS:

No person other than a Party to this GIA Agreements shall have any rights to enforce any term of this GIA Agreement.

17. NO PARTNERSHIP OR AGENCY:

Nothing in this GIA Agreement is intended to, or shall be deemed to, establish any partnership or joint venture between the Parties, constitute either Party the agent of the other Party, nor authorise either Party to make or enter into any commitments for or on behalf of the other Party.

18. <u>NOTICES:</u>

All notices related to this GIA Agreementwhich are permitted hereunder shall be in writing and deemed to have been duly given/served if delivered personally or sent by facsimile transmission (with answerback received) or overnight express or by registered mail or certified mail, postage prepaid. All notices shall be sent to the addresses mentioned in the title clause or to such other address as the Parties may designate from time to time in writing.

19. FORCEMAJURE:

- a) Neither Party shall be liable to the other for any delay or failure in the performance by it of any obligation under this GIA Agreementto the extent affected, delayed or prevented by an event of Force Majeure, provided that the Party that is affected by the Force Majeure shall provide notice thereof to the other Party as soon as practicable, but in any event not later than 7 [seven] days from the time which the affected Party knew or should reasonably have known of the commencement of the event of Force Majeure.
- b) The affected Party shall use its reasonable endeavours to mitigate the adverse effects of the Force Majeure event affecting it and shall seek reasonable alternative means to resume the Services, to the extent not affected by the event of Force Majeure. The affected Party shall provide to the other Party reasonable details as requested by the other Party regarding the nature of the Force Majeure event.

Neither Party shall be entitled to make any claim on the other for any fees, costs, expenses, losses or damages incurred or suffered as a result of an event of Force Majeure.

c) If any event of Force Majeure continues beyond a period of one month, either Party may terminate this GIA Agreement.

20. ASSIGNMENT AND OTHER DEALINGS PROHIBITED:

This GIA Agreement is personal to the Parties and no Party shall, without the prior written consent of the other Party (such consent not to be unreasonably conditioned, withheld or delayed), assign, transfer, or deal in any other manner with this GIA Agreement or any of its rights and obligations under or arising out of this GIA Agreement, or purport to do any of the same. No Party shall sub-contract or delegate in any manner any or all of its obligations under this GIA Agreement to any third party or agent. Each Party that has rights under this GIA Agreement is acting on its own behalf and not for the benefit of another person.

21. ARBITRATION:

Any dispute or differences arising out of or in connection with this GIA Agreement (including the validity or interpretation hereof) shall be referred to the sole arbitrator to be nominated by Parties and the arbitration shall be governed by the provisions of the Indian Arbitration & Conciliation Act, 1996 or any law relating to arbitration in force at the time of such reference. The venue of the arbitration shall be Mumbai. The parties submit to the exclusive jurisdiction of the Courts of Mumbai.

22. GOVERNING LAW AND JURISDICTION:

This GIA Agreement and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the laws of India. The parties irrevocably agree that the courts of Mumbai shall have exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with this GIA Agreement or its subject matter or formation (including non-contractual disputes or claims).

23. COUNTERPARTS:

This GIA Agreement may be executed in any number of counterparts, each of which when executed and delivered shall constitute an original of this GIA Agreement, but all the counterparts shall together constitute the same GIA Agreement. No counterpart shall be effective until each party has executed at least one counterpart.

24. ENTIRE AGREEMENT:

This GIA Agreement constitutes the entire agreement between the parties and supersedes all previous agreements between the parties relating to its subject matter.

IN WITNESS WHEREOF the Parties hereto have caused this GIA Agreementto be executed, in duplicate, by their duly authorized representatives on the date first written above.

For TPCDT	For Bharati Vidyapeeth (Pune)
Approved On: 25-Jun-2020 07:34:43 PM	Signature: Dr. S. R. Rathod
Name: Nagori Foram	Name: Rhange LECTOR
Designation: Head - Corporate Social Responsibility	(Deemed to be University) DestroctionScience Centre(M.S.W) Erandwane, Pune - 411 039

Bharati Vidyapeeth Deemed University, Pune (India)

'A' Grade University Status by MHRD, Govt. of India Accredited & Reaccredited with 'A' Grade by NAAC and A+ in 2016

MASTER OF SOCIAL WORK PROGRAMME (MSW)

Structure of the Programme under Semester and Choice Based Credit Pattern (To be effective from 2019-20)

Social Science Centre

Paud Road, Erandwane, Pune – 411038 Ph. 020 25448520 or 25431891 Email: <u>mswpune@bharatividyapeeth.edu</u> <u>drgrrs@gmail.com</u>

BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE. MASTER OF SOCIAL WORK (MSW) (Structure of the Programme under Semester and Choice Based Credit Pattern 2019-20)

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GLOSSARY OF ABBREVATIONS

СС	CoreCourses
FCD	Family and Child Development
URCD	Urban and Rural Community Development
HRM&LW	Human Resource Management and Labour Welfare
AE	Ability Enhancement
SE	Skill Enhancement
FW	Field Work
OV	Orientation Visits
RP	Research Project
CVV	Comprehensive Viva-Voce
Lect	Lectures
Tut	Tutorials
UE	University Examinations
CIA	Continuous Internal Assessment
EoTE	End of Term
ST	Study Tour
ВРТ	Block Placement

PREFACE

As per the changing needs of the society we have revised the syllabus of the MSW programme offered by the Bharati Vidyapeeth Deemed University, Pune that has been implemented from the academic year 2019-20. The present syllabus is of semester and choice based credit pattern. The curriculum is designed under the guidelines given by the UGC. The entire syllabus is very much innovative and need based.

It also contains the brief information of the Bharati Vidyapeeth Deemed University and Social Sciences Centre. For the information of the students, the rules and guidelines of the MSW programme regarding the field work, project report, orientation visits, study tour, attendance, NSS camp, assignments, etc. are described. The students are required to go through the details and follow the rules and regulations accordingly.

Dr. G. R. Rathod Director

BHARATI VIDYAPEETH

Bharati Vidyapeeth, the parent body of Bharati Vidyapeeth University, was established on 10th May, 1964 by Hon. Dr. Patangrao Kadam with the objective of bringing about intellectual awakening and all sided development of the people of our country through education. Bharati Vidyapeeth is now a leading educational institute in the country, which has created a history by establishing, within a span of 52 years, 180 educational institutions imparting education from pre-primary to post graduate level. Our colleges and institutions of higher education impart education in different discipline including Medicine, Dentistry, Ayurved, Homoeopathy, Nursing, Arts, Science, Commerce, Engineering, Pharmacy, Management, Social Sciences, Law, Environmental Science, Architecture, Hotel Management and Catering Technology, Physical Education, Computer Science, Library Science, Information Technology, Biotechnology & Agriculture.

These educational institutions which have achieved an acclaimed academic excellence cater to the educational needs of thousands of students coming from different parts of India and also abroad. Our teaching faculty includes highly qualified, experienced, dedicated and student-caring teachers. These educational institutions are located at various places viz. Pune, Navi Mumbai, Kolhapur, Solapur, Sangli, Karad, Panchagani, Jawhar and New Delhi. The spectacular success achieved by Vidyapeeth is mainly a creation of unusual foresight, exceptionally dynamic leadership and able guidance of the founder of Vidyapeeth, Hon. Dr. Patangrao Kadam. It has been our constant endeavour to impart high quality education and training to our students and so, no wonder that our institutions have become nationally known for their academic excellence. In recognition of the academic merit achieved by these institutions and potential for development, Government of India and the University Grants Commission of India have accorded the status of university to Bharati Vidyapeeth with its thirty two constituent units.

Besides these 180 educational institutions, Bharati Vidyapeeth has also been successfully running a Co-operative Bank, Co- operative Consumer Stores, a Cooperative Poultry, a Co-operative Sugar Factory, Charitable Hospital and Medical Research Center and the like.

Bharati Vidyapeeth Deemed University, Pune

Bharati Vidyapeeth, the parent organization of this University is one of the largest educational i-ganizations in the country. It has 180 educational units under its umbrella including 67 Colleges and Institutes of conventional and professional disciplines.

The Department of Human Resource Development, Government of India on the recommendations of the University Grants Commission accorded the status of "Deemed to be University" initially to a cluster of 12 units of Bharati Vidyapeeth. Subsequently, 18 additional colleges / institutes were brought within the ambit of Bharati Vidyapeeth University wide various - notifications of the Government of India. Bharati Vidyapeeth University commenced its functioning on 26th April, 1996.

Constituent Units of Bharati Vidyapeeth University

- 1. BVDU Medical College, Pune.
- 2. BVDU Dental College Hospital, Pune
- 3. BVDU College of Ayurved, Pune
- 4. BVDU Homoeopathic Medical College, Pune
- 5. BVDU College of Nursing, Pune
- 6. BVDU Yashwantrao Mohite College of Arts, Science & Commerce, Pune.
- 7. BVDU New Law College, Pune.
- 8. BVDU Social Sciences Centre (M.S.W.), Pune
- 9. BVDU Yashwantrao Chavan Institute of Social Science Studies & Research, Pune.
- 10. BVDU Centre for Research S Development in Pharmaceutical Sciences S Applied Chemistry, Pune
- 11. BVDU College of Physical Education, Pune.
- 12. BVDU Institute of Environment Education & Research, Pune.
- 13. BVDU Institute of Managements Entrepreneurship Development, Pune.
- 14. BVDU Poona College of Pharmacy, Pune.
- 15. BVDU College of Engineering, Pune
- 16. BVDU Interactive Research School in Health Affairs (IRSHA), Pune.
- 17. BVDU Rajiv Gandhi Institute of Information Technology & Biotechnology, Pune
- 18. BVDU College of Architecture, Pune
- 19. BVDU Abhijit Kadam Institute of Managements Social Sciences, Solapur.
- 20. BVDU Institute of Management, Kolhapur

- 21. BVDU Institute of Managements Rural Development administration, Sangli.
- 22. BVDU Institute of Managements Research, New Delhi
- 23. BVDU Institute of Hotel Managements Catering Technology, Pune
- 24. BVDU Yashwantrao Mohite Institute of Management, Malakapur-Karad.
- 25. BVDU Medical College & Hospital, Sangli
- 26. BVDU Dental College & Hospital, Mumbai
- 27. BVDU Dental College & Hospital, Sangli
- 28. BVDU College of Nursing, Sangli.
- 29. BVDU College of Nursing, Navi Mumbai
- 30. BVDU College of Engineering New Delhi.

The status of University was given to a cluster of these Colleges and Institutes in appreciation of the high level of their academic excellence and for their potential forfurther growth.

During the last 22 years or so, the University has achieved still higher pinnacles of academic excellence and has established its reputation to such an extent that it attracts students not only from various parts of India but also from abroad. According to a survey conducted by Association of Indian Universities, this University is one among the top ten Universities in the country preferred by the overseas students for admissions. At present, there are more than 817 overseas students from 67 countries on the rolls of constituent units of this University.

During the last 20 years, there has been tremendous academic expansion of the University. It now conducts in all 250 plus programmes in its constituent units which includes Post Graduate, Under Graduate and Diploma level courses. All the professional courses which the University conducts such as those of Medicine, Dentistry, Engineering etc., have approval of the respective Statutory Councils, viz., Medical Council of India, Dental Council of India, All India Council for Technical Education etc.

The University is a throbbing center of research activities and has launched Ph.D. programmes in 72 subjects. It has also introduced quite few innovative academic programmes such as Masters in Clinical Optometry, M.Tech. in Nano Technology.

The University's performance and achievements were assessed by the "National Assessment and Accreditation Council" and it was accredited with a prestigious "A" grade in 2004. Quite a few programmes of the constituent units such as College of Engineering at Pune, Management Institute in Delhi and others have also been accredited by "National Board of Accreditation". Three constituent

units of Bharati Vidyapeeth Deemed University are also the recipients of ISO 9001-2001 certifications.

Reaccreditation with 'A' Grade in 2011 and A+ 2016.

BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE.

MASTER OF SOCIAL WORK (MSW)

Programme Structure under Semister and Choice Based Credit Pattern

Introduction: The degree of Master of Social Work is a professional Post-Graduate degree approved by Department of Social Justice, Govt. of Maharashatra. The graduates have potentiality to professionally seek employment and make career in various positions in governmental, non governmental and UN agencies such as UNO, UNICEF, ILO, WHO, UNDPA, World Bank etc. The various areas for job placement are in Rural development, Urban development, Tribal development, Women and Child Development, Welfare of specially challenged persons, Correctional organizations, Corporate social responsibility, Family Courts, Hospital settings etc. The Master's degree programme equips trainees to work as agents of change from grassroots level to policy levels.

Bharati Vidyapeeth Deemed University, Pune offers three specialization courses of eight papers each divided over four semesters. Currently the following specializations are approved by the University.

The following Specialization Courses are offered by the University

- 1. Family and Child Development (FCD)
- 2. Urban and Rural Community Development (URCD)
- 3. Human Resource Management and Labour Welfare (HRM&LW)
- 1. MSW Programme Structure. : The MSW degree will be awarded to students who complete a total of 100 credits in minimum of two years of four semesters. The student shall opt total 24 Courses in four semester which includes; 12 Core Courses, 08 Electives Courses (student shall select any one specialization and minimum two courses out of three in each semester) and 02 ablilty and 02 skill enhancement Courses. Student shall opt six courses per semester; Field Work and Viva-Voce. The student has to complete Orientation Visits as a part of field work in first semester, Research Project (Dissertation) in third Semister.Study Tour and Block placement in fourth semester.
- 2. Intake: The intake for MSW Programme is 60 + 6 (Pune) and 30 + 03 (Solapur).
- **3.** Admission Procedure: Admission to MSW Progamme is open to graduate of any Indian or Foreign recongnised University. Candidates who have appeared for the qualifying examination (Bachelor's degrees exam.) in the respective year and awaiting results are also eligible for admission to first year M.S.W. Programme. However, the admission of such students will be confirmed only after producing the original passing certificate.
- **4. Reservation Rules:** The Reservation rules of the Dept. of Social Welfare, Govt. of Maharashtra is applicable for the admission to M.S.W. Programme but the GOI

Category	Percentage	No. of Seats
Open	48	29
S.C.	13	08
S.T.	07	04
O.B.C.	19	11
V.J.N.T.	11	07
S.B.C.	02	01
Total	100	60

scholarship is not applicable to the backward community students.Hence, the admission will be granted as per the following Reservation Schedule:

5. **Duration:** The duration of the Programme shall be of two academic years, in case the student fails in MSW programme he or she has to complete this programme within a maximum period of four years.

6. Eligibility:

Admission to MSW Programme is open to graduate (12+3) of any Indian or Foreign recognized University. Candidates who have appeared for the qualifying examination (Bachelor's degrees exam.) in the respective year and a waiting for the result are also eligible for admission to first year M.S.W. Programme. However, the admission of such students will be confirmed only after producing the original passing certificates such as Marksheet, Leaving / Transfer certificate, Migration etc. within 30 days from the date of admission. In any case the student has to clear his / her eligibility before 30^{th} August of the respective academic year. If the student fails to clear his / her eligibility within the said period he / she will not be allowed for appearing the University examinations.

7. Medium of Instruction:

The medium of instruction shall be English. However, the student can write their theory examination, field work reports, and project reports in Marathi.

- **8. Programme Pattern:** The MSW programmeshall have a Choice Based Credit System.
- **8.1** The total marks at University Examinations for each theory courses shall have 100 marks. Out of 100 marks, 60 marks theory examination will be conduced by university and 40 marks for internal assignments.
- **8.2** Internal examination consists Paper presentations /Assignments/Term papers/ Class test/ Case-study presentations/Review of Articles or Books/Preparing bibliography/Field based tasks.
- **8.3** Internal assessments marks out of 40 and corresponding Grade Points shall be given by the subject teacher and shall be submitted by the Head of the Institute to the University.

8.4 The Grade Points of University examination and Internal Assessment shall be combined with Weightages of 60 and 40 marks respectively.

9. Field Work:

- **9.1** The field work in the three semesters will include concurrent field work in the NGOs, Industries, Government Offices, undertakings and other agencies.Orientation visits shall be part of Field work of Sem I.
- 9.2. Field Work shall be of 100 marks for each semesters (Sem I, Sem II, Sem III).
- 9.3. Field work shall be conducted two days (fifteen clock hours) in every week.
- **9.4.** Field work shall be conducted at social work agencies/organizations recognized by the training Institution. Every student shall be supervised by an experienced/professional social worker from the agency and a faculty member from the Institute.
- **9.5.** A weekly individual conference of at least 30 minutes, related to field work of every student, shall be conducted by the field work supervisor. Field workshall be evaluated internally by the assigned Field Work Supervisor.
- 9.6. 100% attendance at Field work is compulsory.
- **9.7.** A student failing in field work in any semester will not be permitted to appear for theory courses of the respective semester.
- **9.8.** In any case, there is no provision of revaluation or moderation of field work marks, at university level.

9.9. Field Work Components:

a. <u>Semester- I</u>

- Concurrent Field Work
- Individual/Group Conference
- Seminar/ Presentation.
- b. <u>Semester- II</u>
 - Concurrent Field Work
 - Individual/Group Conference
 - Seminar/ Presentation.
- c. <u>Semester- III</u>
 - Concurrent Field Work
 - Individual/Group Conference
 - Seminar/ Presentation.

10. Comprehensive Viva Voce Examination:

10.1 Viva – Voce shall be of 100 marks each semester.

- **10.2** A comprehensive Viva-Voce examination shall be conducted by a Panel of Examiners appointed by the University at the end of Semesters I, II, III & IV, based on theory knowledge, professional development and field work practicum. The Semester-III, Viva-Voce Examination will also include the Research component.
- **10.3** A student failing in Viva-Voce in any semester shall be called again for theViva Voce within one month from the date of declaration of the respective Semester Examination results. Only one repeat Viva-Voce is permissible tobe conducted during each semester. However a student failing in Viva-VoceExamination shall be eligible for admission to the subsequent Semester.
- **10.4** A student failing in Viva-Voce (Semester-IV) shall be called again for a repeat Viva-Voce within one month from the date of declaration of the Fourth Semester Examination results.

11. Research Project

- **11.1** The Research Project shall be of 100 marks.
- **11.2** Every MSW student is required to select an appropriate topic for his/her research project during the econd semester and complete the Project Report and submit it to the Institute, 15 days before appearing the third semester examination.
- **11.3** There shall be only one Project Report at MSW and it shall be submitted to the University through the Head of the Institution, recommended for submission after Certification and approval of the concerned Research Guide.
- **11.4** The research project report shall be evaluated externally by the University Examiners.
- **11.5** A candidate failing in research project will have to re-write and submit the revised project report in the fourth semister.
- **11.6** The topic of Research must be related to the area of Social Work.
- **11.7** The candidate must follow the scientific process and method of SocialWork Research or Social Science Research.
- 12.0 Orientation Visits : The orientation visit shall be as a part of Fieldwork of Sem I
 - 12.1 Every student is required to visit various NGOs, Industries, Government Organisation and other agencies in the first semester. If the student remains absent for Orientation Visits, he/she should revisit to the allotted agencies in first semester only. The student has to submit a brief report on the Orientation Visits to the Institute.
 - **12.2.** 100% attendance for Orientation Visits is compulsory.

- **12.3.** Orientation Visits shall be evaluated internally by the Coordinator/Field Work Supervisor.
- **13. Study Tour:**Study Tour shall be of 100 marks.
- **13.1** The study tours will be organized separately as per the specializations. The duration of the study tour will be 7 to 10 days. The students are required to submit the study tour reports in the typed format to the institute (i.e. study tour co-ordinator).
- **13.2** The study tour will be compulsory for all the M.S.W. Second year students. If the Student remains absent for the Study Tour, he/she has to complete the Study Tour in the same semester.
- **13.3** The Study Tour will be internally evaluated by the respective Study Tour Coordinator.

14. Block Placement:

- **14.1** Block Placement shall be of 100 marks.
- **14.2** The Block Placement of 30 days duration is compulsory for the MSW Second year students. The same will be arranged by the institute immediately after the III semister examinations. The students are required to submit the detail report of the block placement in the typed form. They will also submit the certificate of completion of Block Placement duly certified by the organization in the prescribed form.
- **14.3** The Block Placement will be internally evaluated by the respective Field Work Supervisor/Coordinator.

15 Heads of passing:

- **15.1** The following shall be the independent heads of passing:
 - 1. Written theory courses
 - 2. Field work
 - 3. Study Tour
 - 4. Research Project
 - 5. Comprehensive Viva Voce
 - 6. Block Placement

16 Standard of Passing:

For the MSW courses, both UE and IA constitute separate heads of passing. In order to pass in such courses and to earn the assigned credits, the learner must obtain a minimum grade point of 5.0 (40% marks) at UE and also a minimum grade point of 5.0 (40% marks) at IA.

If a student fails in IA, the learner passes in the course provided he/she obtains a minimum of 25% in IA and GPA for the course is at least 6.0 (50% in aggregate). The GPA for a course will be calculated only if the learner passes at the UE.

A student who fails at UE in a course has to reappear only at UE as a backlog candidate and clear the head of passing. Similarly, a student who fails in a course at IA has to reappear only at IA as a backlog candidate and clear the head of passing.

Range of Marks (Out of 100)	Grade	Grade Point
$80 \le Marks \le 100$	0	10
$70 \le Marks \le 80$	A+	9
60 ≤Marks <70	А	8
55 ≤Marks <60	B+	7
50 ≤Marks <55	В	6
40 ≤Marks <50	С	5
Marks <40	D	0

The 10-point scale Grades and Grade Points according to the following table.

The performances at UE and IA will be combined to obtain the Grade Point Average (GPA) for the course. The weights for performance at UE and IA shall respectively be 60 and 40.

GPA is calculated by adding the UE marks out of 60 and IA marks out of 40. The total marks out of 100 are converted to grade point, which will be the GPA

Formula to calculate Grade Points (GP)

Suppose that '*Max*' is the maximum marks assigned for an examination or evaluation based on which GP will be computed. In order to determine the GP, Set x = Max / 10 (since we have adapted 10-point system). Then GP is calculated by the formulas shown as below.

Range of Marks at the evaluation	Formula for the Grade Point
8x < Marks < 10x	10
5.5x < Marks < 8x	Truncate (Marks $/ x$) + 2
4x < Marks < 5.5x	Truncate (Marks / x) + 1

Two kinds of performance indicators, namely, the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA) shall be computed at the end of each term. The SGPA measures the cumulative performance of a learner in all the courses in a particular semester, while the CGPA measures the

cumulative performance in all courses since his/herenrolment. The CGPA of learner when he/she completes the programme is the final result of the learner.

The SGPA is calculated by the formula SGPA = $\frac{\sum Ck \times GPk}{\sum Ck}$, where Ckis the credit valueassigned to a course and *GPk* is the GPA by the learner in the course, in the above, the sum is taken over all the courses that the learner has undertaken for the study during the semester, including those in which he/she might have failed or those for which he/ she remained absent. **The SGPA shall be calculated up to two decimal place accuracy.**

The CGPA is calculated by the formula CGPA = $\frac{\sum Ck \times GPk}{\sum Ck}$ is the creditvalueassigned to a course and *GPk* is the GPA obtained by the learner in the course. In the above, the sum is taken over all the courses that the learner has undertaken for the study from the time of his/her enrolment and also the during the semester for which CGPA is calculated, including those in which he/she might have failed or those for which he/she remained absent. **The CGPA shall be calculated up to two** decimal**place accuracy.**

The Formula to compute equivalent percentage marks for specified CGPA:

	10 x CGPA - 10	if $5.00 \le CGPA \le 6.00$
	5 x CGPA + 20	if $6.00 \le CGPA \le 8.00$
% Marks (CGPA) =	10 x CGPA-20	if $8.00 \le CGPA \le 9.00$
-	20 x CGPA - 110	if $9.00 \le CGPA \le 9.50$
	40 x CGPA - 300	if $9.50 \le CGPA \le 10.00$

Award of Honours :

A student who has completed the minimum credits specified for the programme shall be declared to have passed in the programme. The final result will be in terms of letter grade only and is based on the CGPA of all courses studied and passed. The criteria for the award of honours are given below.

Range of CGPA	Final	Performance	Equivalent Range of
Kalige of CGI A	Grade	Descriptor	Marks (%)
$9.50 \le \text{CGPA} \le 10.00$	0	Outstanding	$80 \le Marks \le 100$
$9.00 \le \text{CGPA} \le 9.49$	A+	Excellent	$70 \le Marks < 80$
$8.00 \le \text{CGPA} \le 8.99$	А	Very Good	$60 \le Marks < 70$
$7.00 \le \text{CGPA} \le 7.99$	B+	Good	$55 \le Marks < 60$
$6.00 \le \text{CGPA} \le 6.99$	В	Average	$50 \le Marks < 55$
$5.00 \le \text{CGPA} \le 5.99$	С	Satisfactory	$40 \le Marks < 50$
CGPA Below 5.00	F	Fail	Marks Below 40

17 Rules of Promotion:

- **17.1** A Student is allowed to keep term from Semester I to Semester II, if he/she fails in any number of theory papers in Semester I.
- 17.2 If the student fails either in internal examinations or University examination, he / she declared fail in the respective subjects, then a student is allowed to keep term for Semester III, if he/she has cleared minimum 8courses out of total 12courses of Semester I and Semester II together.
- **17.3** A student failing in field work in any Semester will not be permitted to appear for theory courses of the respective semester. The student will not be eligible to continue with the subsequent Semesters unless he/she satisfactorily clears Field Work and Theory papers of the Semester.

18. Field work and Dissertation (Project Report) will be evaluated as per the evaluation criteria and standards framed by the respective training Institute and the University, from time to time.

19. Results will be declared for each semester and the final examination result will give grade and grade points average.

20. Structure of Question Papers at University Examination

- **20.1** Each theory course is of 60 marks and 3 hours duration. Question paper will consist 2 sections of total 6 questions:
- **20.2** A) Section No. 1 will consist 3 questions. Question No. 1 will be compulsory and will have 3 short notes, out of which any 2 may be attempted (5 marks x = 10 marks). Question no. 2 and question no. 3 will have internal options and carry 10 marks each (10 marks x = 30 Marks)

B) Section No. II will consist 3 questions. Question No. 4will be compulsory and will have 3 short notes, out of which any 2 may be attempted (5 marks x 2 = 10 marks). Question no. 5 and question no. 6 will have internal options and carry 10 marks each (10 marks x 2 = 30 Marks)

21. **Grant of terms**: 100 per cent attendance is expected at the orientation programme, orientation visits, and field work. Minimum 75% attendance is required for class room lectures. Leave is ordinarily not granted. In very exceptional circumstances leave with prior permission of the Head of the Institution must be obtained. The Head of the Institution reserves the right to grant terms. Every student will have to give an undertaking in relation to compliance of all rules and regulations of the training institution. The decision of the Head of the Institution shall be final and binding in all matters pertaining to discipline and professional behavior.

22. Programme Structure: Details

Programme structure shall be as under:	Credits
1. Written theory courses 3 per semester x 4 Semisters: 12 courses x 03 credits	36 Credits
2. Written theory courses 2 per semester x 4 Semisters: 8 courses x 02 credits	16 Credits
3. Ability and Skill Enhancement Courses 1 per semester x 4 courses X 2 credits	08 Credits
4. Field work: 08 credits per semester 03x08 credits	24 Credits
5. Research Dissertation (Project Report) shall submitt in Semester III	03 Credits
6. Study Tour in fourth semester	01 Credits
7. Block Placement after third semester examination	08 Credits
8. Comprehensive Viva Voce: 01 credit per semester 04 x 01 credit	04 Credits
Total	100 Credits

23. Theory Courses:

Class	Semester	Credits
MSW – I	Sem - I	
	Core Compulsory Courses 03x03 credits	09
	Elective Courses 02x02 credits	04
	Ability Enhancement 01x02 credits	02
	Sem – II	
	Core Compulsory Courses 03x03 credits	09
	Elective Courses 02x02 credits	04
	Skill Enhancement 01x02 credits	02
MSW – II	Sem – III	
	Core Compulsory Courses 03x03 credits	09
	Elective Courses 02x02 credits	04
	Ability Enhancement 01x02 credits	02
	Sem - IV	
	Core Compulsory Courses 03x03 credits	09
	Elective Courses 02x02 credits	04
	Skill Enhancement 01x02 credits	02
	Total	60

24. Field Work Practicum :

Class	Semester	Credits
M.S.W I	Semester – I	08
	Semester – II	08
M.S.W. – II	Semester – III	08
	Total	24 credits

25. Block Placement:

Class	Semester	Credits
M.S.W. II	Sem. IV	08

26. Study Tour:

Class	Semester	Credits
M.S.W. II	Sem. IV	01

27. Research Project Report :

Class	Semester	Credits
M.S.W. II	Sem. II and III	03

28. Comprehensive Viva – Voce :

Class	Semester	Credits	
M.S.W. I	Semester – I	1	
	Semester – II	1	
M.S.W II	Semester – III	1	
	Semester – IV	1	
1	Total		

MSW Regular CBCS 2019-20 Patterns

The MSW Programme is of 100 credits which is to be completed in a minimum of two years. The distribution of Credits over the Semesters is given below:

SEMESTER – I

Course Number	Course Title	Credit Value	#Lect.	#Tut.	Weightage for UE/CIA (%)	EoTE
	Core Course – Com	pulsory (Courses		-	
CC-1	Social work: history and ideology	03	30	30	60/40	Uni.
CC-2	Methods of social work practice:	03	30	30	60/40	Uni.
	work with individuals and groups					
CC-3	Social Work Research	03	30	30	60/40	Uni.
	Compulsory Elective - Opt any two	courses	from the	speciali	zation	
Specialization	: Family & Child Development			-		
FCD-1	Family Dynamics and Working with Families	02	20	20	60/40	Uni.
FCD-2	Child Development and Socialization	02	20	20	60/40	Uni.
FCD-3	Education and social work intervention	02	20	20	60/40	Uni.
	Compulsory Elective - Opt any two	courses	from the	speciali	zation	
Specialization	: Urban And Rural Community Dev	elopmen	t			
URCD-1	Urban Development	02	20	20	60/40	Uni.
URCD-2	Rural Development	02	20	20	60/40	Uni.
URCD-3	Community planning for development	02	20	20	60/40	Uni.
	Compulsory Elective - Opt any two	courses	from the	speciali	zation	
Specialization	: Human Resource and Labour Wel			•		
HRM&LW-1	Organisational Behaviour	02	20	20	60/40	Uni.
HRM&LW-2	Trade Unions in India	02	20	20	60/40	Uni.
HRM&LW-3	Labour Economics	02	20	20	60/40	Uni.
	Ability Enhance			<u> </u>	1	I
AE-1	Corporate Social responsibility	02	20	20	60/40	Uni.
	Field Work &	Viva-vo	ce		1	1
FW-1	Field Work-I	08	-	-	100 marks Internal assessment	IA.
CVV-1	Comprehensive Viva-Voce-I	01	-	_	100 marks	Uni.

SEMESTER – II

Course Number	Course Title	Credit Value	#Lect.	#Tut.	Weightage for UE/CIA	ЕоТЕ
	Core Course – Con	pulsory (Courses	1	1	1
CC-4	Psychology for Social Workers	03	30	30	60/40	Uni.
CC-5	Methods of Social Work Practice -	03	30	30	60/40	Uni.
	Work with Community & Social					
	Action					
CC-6	Statistics and Computer	03	30	30	60/40	Uni.
	Applications in Social Work					
	Research					
	Compulsory Elective - Opt any two	o courses t	from the	speciali	zation	
Specialization	: Family & Child Development					
FCD-4	Family Life and Population	02	20	20	60/40	Uni.
	Education					
FCD-5	Women Empowerment	02	20	20	60/40	Uni.
FCD-6	Feminist Social work Practice	02	20	20	60/40	Uni.
Compulsory H	Elective - Opt any two courses from	the specia	lization		1	I
	: Urban & Rural Community Deve					
URCD-4	Tribes in India	02	20	20	60/40	Uni.
URCD-5	Panchayat Raj System	02	20	20	60/40	Uni.
URCD-6	Community Development Models	02	20	20	60/40	Uni.
	and Approaches					
Compulsory H	Elective - Opt any two courses from	the specia	lization		1	
Specialization	: Human Resource Management a	ind Labou	ır Welfar	·e		
HRM&LW-4	Labour Legislation	02	20	20	60/40	Uni.
HRM&LW-5	Human Resource Management	02	20	20	60/40	Uni.
HRM&LW-6	Business Communication and	02	20	20	60/40	Uni.
	Presentation Skills					
Skill Enhance	ment Course	•	•		•	
SE - 1	Social Work and Skill	02	20	20	60/40	Uni.
	development					
	Field Work &	z Viva-voo	e			
FW-2	Field Work-II	08	-	-	100 marks Internal assessment	IA.
CVV-2	Comprehensive Viva-Voce-II	01	-	-	100 marks	Uni.

SEMESTER – III

Course Number	Course Title	Credit Value	#Lect.	#Tut.	Weightage for UE/CIA	ЕоТЕ
	Core Course – Co	mpulsory	Courses			
CC-7	Introduction to Sociology and Indian Social Problem	03	30	30	60/40	Uni.
CC-8	Social Legislations	03	30	30	60/40	Uni.
CC-9	Social Policy and Planning	03	30	30	60/40	Uni.
	Compulsory Elective - Opt any tw	o courses	from the	speciali	zation	
Specialization:	Family & Child Development					
FCD-7	Progammes and Services for Children	02	20	20	60/40	Uni.
FCD-8	Youth Development	02	20	20	60/40	Uni.
FCD-9	Development communication for Social Workers	02	20	20	60/40	Uni.
Compulsory E	lective - Opt any two courses from	the specia	lization	1		1
Specialization:	Urban & Rural Community Deve	lopment				
URCD-7	Urban PlanningandGovernance	02	20	20	60/40	Uni.
URCD-8	Natural Resource Management and Livelihood Resource	02	20	20	60/40	Uni.
URCD-9	Cooperative Practices in Rural Development	02	20	20	60/40	Uni.
Compulsory E	lective - Opt any two courses from	the specia	lization	•		•
Specialization:	Human Resource Management	and Labou	ır Welfar	·e		
HRM&LW -7	Social Security and Laws related to Wages.	02	20	20	60/40	Uni.
HRM&LW -8	Public relations and Corporate Communications	02	20	20	60/40	Uni.
HRM&LW -9	Personnel Management	02	20	20	60/40	Uni.
Ability Enhand	cement Course	1	1	1		1
AE-2	Environmental Issues and Disaster management	02	20	20	60/40	Uni.
	Field Work	& Viva-vo	ce		-	
FW-3	Field Work-III	08	-	-	100 marks Internal assessment	IA.
CVV-3	Comprehensive Viva-Voce-III	01	-	-	100 marks	Uni.
RP	Research Project	03	_			Uni.

SEMESTER – IV

Course Number	Course Title	Credit Value	#Lect.	#Tut.	Weightage for UE/CIA	ЕоТЕ
	Core Course – Con	pulsory (Courses	1	I	1
CC-10	Counselling in Social Work	03	30	30	60/40	Uni.
CC-11	Introduction to Constitution and	03	30	30	60/40	Uni.
	Human Rights					
CC-12	Community Health and Health	03	30	30	60/40	Uni.
	Care System.					
(Compulsory Elective - Opt any two	o courses	from the	speciali	zation	
Specialization:	Family & Child Development					
FCD-10	Family Counselling	02	20	20	60/40	Uni.
FCD-11	Gender Studies	02	20	20	60/40	Uni.
FCD-12	Introduction to Gerontology	02	20	20	60/40	Uni.
Compulsory El	ective - Opt any two courses from	the specia	lization			
Specialization:	Urban & Rural Community Devel	opment				
URCD-10	Sustainable development	02	20	20	60/40	Uni.
URCD-11	Community Participation and	02	20	20	60/40	Uni.
	Management					
URCD-12	Tribal Development	02	20	20	60/40	Uni.
Compulsory El	ective - Opt any two courses from	the specia	lization			
Specialization:	Human Resource Management a	nd Labou	ır Welfar	e		
HRM&LW -10	Labour Welfare	02	20	20	60/40	Uni.
HRM&LW -11	Industrial Relations and Case	02	20	20	60/40	Uni.
	Studies					
HRM&LW -12	Performence Management	02	20	20	60/40	Uni.
Skill Enhancem	ent Course					
SE -2	Media and Development	02	20	20	60/40	Uni.
	Field Work, Viva-	voce & Re	esearch			
CVV-4	Comprehensive Viva-Voce-IV	01	-	-	-	Uni.
Field Work	Field Work-III	08	-	-	100 marks Internal assessment	IA.
ST	Study Tour	01	-	-	Internal assessment	Inst.
BPT	Block Placement	08	-	-	Internal assessment	Inst.

MSW Regular (CBCS 2019-20 pattern) CC-1: SOCIAL WORK: HISTORY AND IDEOLOGY Section – I

Unit - I: Indian History of Ideologies for Social Change - I

- Concept of ideology
- Lokayat/Charvak
- Vedic and Vedant
- Jainism and Buddhism

Unit – II: Indian History of Ideologies for Social Change – II

- Hindu Reform Movement
- Dalit Movement
- OBC / VJNT Movements

Unit –III: Western History of Ideologies

- Rationalism
- Liberalism
- Utilitarianism
- Welfarism
- Socialism

Section – II

Unit -IV: Contemporary Ideologies

- Neo-liberalism
- Post-Modernism
- Globalization
- Ideology of Sustainable Development

Unit – V: History of Social Work Profession in India

- Social work education in India
- Goals of social work education
- Social work as a Profession

Unit -VI: Values and Ethics of Professional Social Work

- Concept of values and ethics
- Code of ethics for social workers
- Spirituality and social work

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- 23. Ram Ahuja, Indian Social System, Rawat Publications, Jaipur and New Delhi, 1997.
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CC- 2: METHODS OF SOCIAL WORK PRACTICE: WORK WITH INDIVIDUALS AND GROUPS

Unit -I: Introduction to Case Work as a Method of Social Work

- Concept and definitions of case work
- History of case work in India
- Assumptions in case work
- Ethics and Values in case work

Unit-II: Components of Case Work-

- Person
- Problem
- Place
- Process

Unit-III: Principles and Process of Case Work

- Principles of case work
- Process of case work Study, diagnosis, treatment, evaluation, termination and follow up.
- Tools and Techniques in case work

Section –II

Unit – IV: Introduction to Group Work

- Concept, meaning and definition of Social Group work
- Characteristics of social group work
- Principles of social group work
- Group work in various settings hospital, school, correctional setting

Unit – V: Process of Social Group Work

- Orientation phase,
- Assessing and establishing objectives,
- Preparation of plan,
- Group formation phase,
- Rapport establishment phase
- Programme implementation
- Evaluation phase,
- Termination phase

Unit – VI: Recording in Social Group Work

- Significance of Recording in group work
- Principles of recording
- Types of recording- narrative, process and summary
- Techniques of recording –observation, fish-bowl, sociogram.

- 1. Methods of Social work Practice :Work with Individual and Groups, Dr. Anita Mohite, 2019, Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
- 2. Youth Development Dr. Anita Mohite, 2019, Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
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CC-3: SOCIAL WORK RESEARCH

Section – I

Unit – I: Introduction to Social Work Research

- Concept and Definitions of Social Work Research
- Goals of Research
- Scientific Methods

Unit – II: Elements of Research

- Concept and construct
- Hypothesis
- Objectives
- Variables: Dependent and Independent

Unit III: Stages in Research

- Selection of Topic
- Problem Formulation
- Formulation of Hypothesis and Objectives
- Formulation of Research Design
- Designing various Tools of Data collection
- Data Processing Scrutiny, Editing, Coding, Data Analysis and Interpretation
- Report writing

Section – II

Unit - IV: Types of Research and Research Designs

- Types of research: Qualitative research and Quantitative research
- Action Research and Participatory research,
- Experimental and Intervention research
- Research Design
- Descriptive and Exploratory
- Evaluative

Unit - V: Research Methodology Sampling Methods

- Universe of study
- Sampling methods
- Probability sampling: Random sampling- simple, stratified and systematic
- Non probability sampling: Purposive, Quota, convenience, Snow-ball

Unit – VI: Data Collection

- Sources -Primary and Secondary
- Methods- Observation, Interview, Focused Group Discussion
- Tools Questionnaire, Interview schedule and interview guide, standardised scales

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- 2 Social Analysis Methodology Dr.V.V.Kulkarni Dr. M.P.Kanaskar,(2014), -Published by Current Publications, Agra.
- 3. Qualitative research Dr. M.P.Kanasker and Dr. V.V.Kulkarni, (2019) Published by Current Publications, Agra.
- 4. Quantitative research Dr. M.P.Kanasker and Dr. V.V.Kulkarni, (2019) Published by Current Publications, Agra
- 5. Action Research Dr. M.P.Kanasker and Dr. V.V.Kulkarni, (2019) Published by Current Publications, Agra
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FCD - 1 : FAMILY DYNAMICS AND WORKING WITH FAMILIES

Section - 1

Unit – 1: Family as a Social Institution

- Origin, meaning & definition of family
- Evolution of family as a social institution.
- Types and functions of family.

Unit – 2: Changing Family Structure

- Re-constituted families
- Child-less families
- Live-in relationships
- Single parenthood

Unit – 3: Factors affecting Family

- Urbanisation,
- Modernisation
- Globalisation

Section -II

Unit – 4: Issues affecting the Family

- Desertion, separation
- Divorce
- Familial violence and abuse

Unit – 5: Issues of Marginalized families

- Nomadic family
- Tribal family
- Caste / Class Issues

Unit – 6: Services for the Family

- 1. An overview of family laws
- 2. Family support programmes- Institutional
- 3. Non-institutional

- 1. Women Empowerment Dr.Usha Verghese and Dr.Kirtiraj D.C.- (2018) Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
- Child Development and socialization Dr.Usha Verghese and Dr.Nisha Waghmare.-(2018) Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
- 3. Social Legislation Dr. G.R.Rathod, and Jayshree Kandhare 2019, Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
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FCD-2: CHILD DEVELOPMENT AND SOCIALIZATION

SECTION-I

Unit-1: Conceptual Framework

- Definition of child
- Demographic profile of children –Indian and Global
- Overview of situation of children in India

Unit-2: Child Development

- Concept of Child Development
- Principles of Child Development
- Areas of Development- Physical, Emotional, Social, Intellectual

Unit – 3 : Stages in the life-span (up to Adolescence)

- Prenatal
- Neo-natal
- Post natal- Infancy ,Toddlerhood, Early Childhood , Late Childhood ,Adolescence

Section – II

Unit - 4: Developmental Hazards in Childhood

- Infant Mortality
- Common Childhood Diseases
- Behavioural Problems

Unit – 5: Child Socialization

- Meaning ,Concept and Definition of Socialization
- Process and goals of Socialization
- Socialization of Children in Institutional Settings

Unit - 6: Agencies of Socialization

- Family
- School
- Mass-Media

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- 11. Child Development Elizabeth B. Hurlock.

FCD-3 EDUCATION AND SOCIAL WORK INTERVENTION

Section – I

Unit – I: Conceptual Framework

- Concept and Definition of Education
- Objectives of Education
- Factors affecting access to Education

Unit – II: Non-Formal Education

- Definition ,Relevance and Scope of non-formal education
- Objectives and Characteristics of non-formal education
- Non-formal education as a methodology in formal education

Unit – III: Lifelong Education

- Concept and meaning of lifelong education
- Government policies and programmes for lifelong Education
- NGO initiatives for lifelong Education

Section – II

Unit – IV: Pre-requisites for Education

- Socio-economic background of adults and children affecting learning process
- Role of facilitator and facilitation in learning environment
- Psychological aspects of Education

Unit – V: Contents in Education

- Basic principles of curriculum development
- Techniques in Education: Formal lectures, presentations, symposium, seminar, discussion, Role play, Street play,
- Importance of Mass-media education

Unit- VI: Training in Education

- Concept and Importance of training
- Content of training
- Types of training

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URCD – 1: URBAN DEVELOPMENT

Section – I

Unit – I: Basic Concepts in Urban Development

- Meaning and concept of Urban Development
- Characteristics of urban development.
- Need for Urban Development

Unit – II: Urban Development Policies

- Slum Rehabilitation policy
- Urban Housing Policy

Unit - III: Basic Services and infrastructure in Urban areas

- Basic services: City transport, Internal roads, public toilets, electricity, etc.
- Sanitation and Water supply
- Health and education

Section – II

Unit - IV: Urban Development and Slums

- Growth of slum areas
- Issues in slums
- Impact of slums on urban development

Unit - V: Problems and issues in Urban Development -I

- Migration
- Solid waste management
- Crime in cities

Unit - VI: Problems and issues in Urban Development -II

- Environmental Protection
- Housing
- Urban Poverty
- Social inclusion and slum development

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URCD – 2: RURAL DEVELOPMENT

Section – I

Unit-I: Introduction to Rural Development

- Concept and meaning of Rural development
- Need of Rural development
- Significance of Rural development

Unit – II: Rural Development theories

- Economic Development theory,
- Social Change theory
- Infrastructure Development theory

Unit-III: Rural Development Policies

- Rural Infrastructure development policy
- Agriculture development policy
- Rural Employment policies
- Challenges in rural Development

Section – II

Unit-IV: Rural Development Programmes

- <u>Mahatma Gandhi National Rural Employment Guarantee Scheme</u>
- National Rural Livelihood Mission (NRLM)
- Swachhabharat Yojana
- DeenDayal Upadhya gramin KaushalyaYojana
- Pradhanmantri Awas Yojana Gramin
- National Social Assistance Programme
- Antodaya Yojana

Unit-V: Role of NGO's and Corporate's in Rural Development

- Poverty alleviation and Employment Generation
- Education, Health and Women Empowerment
- Environment protection and Disaster management

Unit-VI: Globalization and its impact on Rural Development

- Globalization and its impact on rural community
- Globalization and Rural Economy Agriculture, Marketing, etc.
- Globalization and Rural Employment

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URCD 3 Community Planning for Development

Unit I: Community planning

- Need and Objectives of Community planning
- Principles and Dimensions
- Planning methods and tools

Unit II : Community Development

- Areas of Community development
- Holistic approach in Community development
- Application of Social work methods in Community planning

Unit III Relationship of Community planning with:

- Community organization
- Social Development
- Sustainable development

Section II

Unit IV Community planning process

- Developing Community Vision
- Community Need assessment
- Forming planning Committees
- Participatory planning

Unit V Community planning types

- Integrated community planning
- Strategic community planning
- Comprehensive community planning

Unit VI Community planning skills

- Community organization
- Resource mobilization
- Group facilitation
- Reporting and Documentation

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HRM&LW - 1: ORGANISATIONAL BEHAVIOUR

Section – I

Unit - I: Organizational Behaviour

- Definition and Scope of Organizational Behaviour
- Importance of Organizational Behaviour
- Models of Organizational Behaviour

Unit -II: Human Behaviour at Work

- Human Needs
- Attitudes Their formation, measurement and change
- Job satisfaction

Unit – III: Motivation

- Theories of motivation
- Industrial morale
- Stress and Management

Section – II

Unit -IV: Industrial Conflicts

- Concept and causes of Industrial conflicts
- Types of conflicts
- Conflict Management

Unit-V: Human Problems in Industry

- Nature and Types of Human Problems
- Management Initiatives
- Social Work interventions

Unit – VI: Factory as a Social Organization

- Formal and Informal Groups
- Group Dynamics

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HRM&LW – 2: TRADE UNIONS IN INDIA

Section – I

Unit – I: Trade Unions

- Definitions of Trade Union
- Types of Trade unions
- Functions of Trade unions

Unit -II: Trade Union Movement in India

- Factors responsible for the Growth of Trade Union Movement
- Stages of Trade Union Development
- Future of Trade Unionism in India

Unit -III: Registration and Recognition of Trade Unions

- The India Trade Unions Act, 1926
- Status of Recognized Union

Section – II

Unit – IV: Problems of Trade Unions

- Problems of Leadership in Public, Co-operative and Private Sectors
- Post-Globalisation Issues

Unit – V: Central Trade Unions in India

- All Indian Trade Union Congress
- Bharatiya Mazdoor Sangh
- Hind Mazdoor Sabha
- All India Railwaymen's Federations

Unit – VI: Role of Trade Unions

- Labour Welfare
- Job Security and Wage Determination
- Labour Productivity and Standard of living

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HRM&LW – 3: LABOUR ECONOMICS

Section – I

Unit – I: Labour Economics

- Definitions of Labour Economics
- Scope of Labour Economics
- Characteristics of Labour

Unit – II: Employment

- Theories Of Employment
- Full Employment
- Unemployment & Under Employment

Unit – III: Wages

- Meaning And Definitions of Wages
- Wage Policy For Developing Economy

Section – II

Unit – IV: Theories of Wages

- Subsistence Theory of Wages
- Marginal Productivity Theory of Wages
- Demand And Supply Theory of Wages

Unit -V: Methods of Wage Payment

- Time Rate System
- Piece Rate System
- Balance Method System
- Performance Based System

Unit – VI: Labour Productivity

- Definition of Labour Productivity
- Labour Efficiency and Productivity
- Factors of Productivity

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AE-1: CORPORATE SOCIAL RESPONSIBILITY

Section – I

Unit – I: Introduction

- Concept, meaning and definitions of CSR
- Objectives and Scope of CSR
- Development of CSR
- Functions of CSR
- Scope for Social Work in CSR Activities

Unit - II: Fields of Corporate Social Responsibility

- Education
- Health and Sanitation
- Gender Empowerment
- Infrastructure development
- Rural Development
- Environment

Unit - III: Essentials of Corporate Social Responsibility

- Identifying Priorities of the Community
- Community Investment and Employee Volunteering
- Partnership and Stakeholder Dialogue
- Managing CSR Along with Supply Chains

Section – II

Unit - IV: Aspects of Corporate Social Responsibility

- Social Aspects
- Economical Aspects
- Environment Aspects
- Role of Social Worker in CSR activities

Unit – V: Corporate Social Responsibility Policy and Programmes

- Policies and Programmes of CSR
- CSR programmes for employees
- Networking with Stakeholders

Unit - VI: Corporate Social Responsibility Strategic Planning and Management

- Non-financial Risk Assessment and Management
- Aligning CSR Strategies with Financial Performance
- CSR Investment for Poverty Alleviation
- Long Term Development and Commitment

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Semester II

CC - 4: PSYCHOLOGY FOR SOCIAL WORKERS

Section – I

Unit – I: Nature and Scope of Psychology

- Concept and definitions of Psychology
- Areas of Application of Psychology
- Scientific Methods in Psychology

Unit – II: Human Development and Human Behaviour

- Concept of Human Growth, Human Development and Human Behaviour
- Environmental Factors affecting Human Behaviour and Development
- Social Factors affecting Human Behaviour and Development

Unit - III: Theories of Human Development and Behaviour

- Freud's Psycho-sexual Theory,
- Erickson's Psycho-social Theory
- Jean Piaget's Cognitive Theory

Section – II

Unit – IV: Developmental Stages in Life Span

- Life span Approach to the understanding of Human Development
- Principles of Human Growth and Development
- Stages of Human Development-from conception to Old Age

Unit – V: Biological Factors in Human Development and Behaviour

- Heredity-Concept, mechanisms
- Influence of Heredity on Human Development and Behaviour
- Role of Endocrine Glands

Unit – VI: Psycho-social Factors in Human Development

- Motivation
- Conflict among Motives
- Coping and Defense Mechanisms

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CC-5 : METHODS OF SOCIAL WORK PRACTICE – WORK WITH COMMUNITY AND SOCIAL ACTION

Section – I

Unit - I: Community Organization

- Concept and Definition of Community Organization
- Values of Community Organization
- Principles of Community Organization
- Steps in community Organization Process

Unit -II: Models and techniques in Community Organization Practice

- Models of Community Organization- Locality development model, Social Planning model, Social Action model, Rothman's Model
- Techniques in Community Organizations -Participatory Rural Appraisal -Rapid Rural Appraisal techniques

Unit - III: Role and Skills of Community Organizer

- Role of Community Organizer Guide, Enabler, Expert and Social therapist.
- Skills in community organization practice: interaction skills, documentation skill, organizing skills, resource mobilizing (internal and external) skills and conflict resolution skills.

Section – II

Unit –IV: Community Organization Practice

- Community Organization Practices in
- Tribal, Rural and Urban / Slum settings
- Areas of community organization health, education, natural resources management, livelihood resources

Unit-V: Social Action

- •Concept and definition of social action
- •Rights based approach
- •Forms of Protest
- •Strategies for Social Action

Unit – VI: Social Advocacy

- •Concept and Definition of Social Advocacy
- Strategies for advocacy; campaigning, lobbying, use of media.
- •Public opinion building in advocacy
- •Coalition and Network building.

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CC -6: STATISTICS AND COMPUTER APPLICATIONS IN SOCIAL WORK RESEARCH

Section – I

Unit – I: Statistics

- Concept, Meaning, Definition of Statistics
- Characteristics and Functions of Statistics
- Social Statistics, Source of Statistics
- Problems in obtaining Social data

Unit - II: Measurements in Social Research

- · Levels of Measurement-Nominal, Ordinal and Ratio
- Scaling Techniques- Likert's, Thurston, Guttman's Scales
- Problems in test of Reliability and Validity of scales
- Quantification of Qualitative data.

Unit – III: Statistical Techniques

- Measures of Central Tendency for Grouped and Ungrouped Data
- Measures of Dispersion Range, Deviation, Standard Deviation, Mean Deviation and Variation
- Test of Association: Chi. Square Test, T- Test

Section – II

Unit – IV: Report writing

- Writing research proposal
- Data analysis and Interpretation
- Presentation and Use of graphs
- Writing research Report

Unit - V: Use and Applications of Computer in Social Research.

- Introduction to Windows Operating System
- MS-WORD Word processing, File operations, Formatting documents, working with various tools

Unit – VI: Computer Softwares in Social Research

- MS-EXCEL Introduction to Excel applications, Working with Spreadsheets, Type of Data entries, Basic statistical functions & Formulas, Graphical presentations, Handling of Database operations.
- Data Analysis with SPSS package.

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FCD – 4 : FAMILY LIFE AND POPULATION EDUCATION SECTION-I

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Unit – 1: Family Life Education

- Concept and meaning of family life education
- Significance of family life education
- Objectives of family life education

Unit-2 Areas of family life education

- Adolescent Life Skill Training
- Premarital And Marital Preparation
- Planned Parenthood
- Home Management,

Unit-3 : Agencies in family life education

- Family
- School
- Mass Media

SECTION-II

Unit – 4: Family life Cycle

- Concept of Family Life Cycle
- Definitions of Family Life Cycle
- Developmental stages in the Family Life Cycle

Unit – 5: Human Sexuality

- Concept of Human Sexuality
- Myths and Misconceptions regarding Sexuality
- Sexually Transmitted Diseases (STD's)

Unit – 6: Sexuality Education

- Concept of Sexuality Education
- Objectives and Significance of Sexuality Education
- Sexuality Counseling

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FCD- 5: WOMEN EMPOWERMENT

Unit-1: Status of women : Historical Review

- Vedic and Pre-Vedic Period
- Buddhist Period
- British Period
- Post Independenc Period

Unit-2 :Issues Related To Women

- Religion
- Politics
- Domestic Violence

Unit-3 : Women Empowerment

- Concept, meaning and definition of Empowerment
- Indictors of Empowerment
- Factors affecting Empowerment

Section II

Unit-4:History of Women Empowerment

- Global context
- Indian context

Unit-5: Empowerment of Women

- Role of the Government
- Role of International Agencies- UN and UNESCO
- Role of People's Movements

Unit-6: Women's Movements

- Women's Movement in India (19th and early 20th century)
- International Women's Movement
- Dimensions of Women's Movements

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FCD – 6: FEMINIST SOCIAL WORK PRACTICE

Section – I

Unit – I: Feminism: Conceptual Framework

- Concept and Meaning of Feminism
- Types of Feminism
- Importance of Feminism in Social Work

Unit – II: Feministic Understanding of Power

- Patriarchal Structure and Ideology
- Social Construction of Gender
- Cultural Perspectives

Unit – III: Relating Feminism to Social Work

- Gender and Social Work Practice
- Gender and Development
- Gender Analysis of Poverty

Section – II

Unit – IV: Applications of Feminist Theories to Practice

- Liberal
- Socialist
- Cultural

Unit - V: Practice Methods and Intervention Strategies

- Working with Men on Women's Issues
- Working with Gender based Violence

Unit – VI: Feminist Social Work Practice With

- Individual
- Couple
- Families

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URCD – 4: TRIBES IN INDIA

Section – I

Unit – I: Tribal Communities in India

- Meaning and definition of tribe
- Origins of tribes- India and Worldwide
- Characteristics of tribes
- Unit II: Typology of Tribes
 - Primitive Tribes
 - Schedule Tribe (ST),
 - Particularly Vulnerable Tribal Groups (PVTG) and
 - Nomadic Tribes (NT)

Unit III: Identity of Tribals

- Spatial distribution of tribals in India
- Tribes in Maharashtra
- Tribal Culture
- Tribal habitat and its characteristics

Section II

Unit IV:Demography of Tribals

- Trends of tribal population
- Key demographic indicators (sex ratio, high IMR and MMR, etc)
- Government Interventions

Unit VIssues of Tribal community

- Social Exclusion
- Indebtedness
- Forced Migration
- Vulnerability to calamities

Unit VI: Institutional Mechanisms and Interventions for Tribal Development

- Panchayat Extension Scheduled Area (PESA),
- Forest Rights Act (FRA),
- Tribal Sub Plan(TSP)
- Initiatives of non-government organizations and through CSR

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URCD - 5: PANCHAYAT RAJ SYSTEM

Section – I

Unit – I: Panchayat Raj System

- Meaning, Concept of Panchayat Raj System
- Objectives of Panchayat Raj System
- Historical development and committees on Panchayati Raj

Unit – II: Panchayati Raj in Operation

- Concept of democratic decentralization
- Organizational and administrative structure of Panchayati Raj
- Panchayati Raj functionaries at village, block and district level with reference to Maharashtra

Unit - III: Aspects of Panchayat Raj Administration

- Functions of Panchayati Raj institutions
- Gram Sabha and Mahila Sabha– organization, strengths and limitations
- State control over Panchayati Raj bodies
- Financial resources to PRIs- Central and State and Own Self Resources

Section – II

Unit - IV: Laws related to Panchyat Raj

- The Constitution 73rd Amendment Act, 1992
- Panchayat Raj Act, 1993
- Panchayats Extension to Scheduled Areas Act (PESA) 1996.

Unit – V: Rural development and PRIs

- NGOs and Peoples participation in PRI
- Social Justice through PRI
- Politics in Panchayat Raj
- Women Empowerment through PRIs

Unit – VI: Challenges in Panchayat Raj System

- Community dynamics and Panchayati Raj
- Social inclusion and Panchayati Raj
- Globalisation and phanchayati Raj

- Panchyat Raj System Dr.V.V.Kulkarni, (2018) Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
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URCD – 6: Community Development Models and Approaches

Section – I:

Unit – I: Introduction

- Concept, meaning and definition of community development
- Process of community development
- Issues in community development
- Community development Administration

Unit - II: Models of Community Development

- Rothman's Model
- Locality Development Model
- Social Planning Model
- Social Action Model
- Life cycle model

Unit – III: Community Development Approaches

- Technical Assistance approach,,
- Self-Help Approach
- Field approach
- Integrated approach

Section – II:

Unit - IV: Community Resource Management

- Resource management Concept, meaning, importance and elements
- Types of resources Human, material and financial resources
- Role of Government in resource management

Unit – V: Sustainable Community Development

- Concept, significance and implications
- Areas of sustainable development Agriculture, Health, Infrastructure and Environment.
- Problems in sustainable community development

Unit – VI: Community Development Project

- Process of project Planning
- Project formulation
- Project implementation
- Monitoring and evaluation of project
- Management Information Systems (MIS) in community development

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HRM&LW – 4: LABOUR LEGISLATION

Section – I

Unit – I: Labour Legislation in India

- Concept and Meaning of Labour Legislation
- Objectives and Importance of Labour Laws
- Development of Labour Laws

Unit – II: The Factories Act, 1948

- Conceptual framework
- Health, Safety and welfare provisions
- Leave provisions

Unit – III: A) The Bombay Shops and Establishment Act, 1948 B) Contract Labour (Regulation and Abolition) Act, 1970

Section – II

Unit – IV: A) The Plantations Act, 1951 B) Mines Acts, 1952

Unit – V: A) The Bombay Industrial Relations Act, 1946 B) The Industrial Employment (Standing Orders) Act, 1946

Unit - VI: The Industrial Disputes Act, 1947

- Definition of Industrial Dispute
- Machinery for settlement
- Machinery for prevention

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HRM&LW - 5 : HUMAN RESOURCES MANAGEMENT

Section – I

Unit – I: Human Resources Management

- Definitions and Scope of H.R.M.
- Objectives of H.R.M.
- Functions of H.R Manager

Unit – II: Human Resources Management Sub-System

- Career Planning and Development
- Performance Appraisal
- Organizational Development

Unit - III: Training and Development

- Need and Importance of Training and Development
- Types and Methods of Training
- Executive Development Programmes

Section - II

Unit – IV: Wage and Salary Administration

- Definitions and Types of Wages
- Principle of Wage and Salary Administration
- Executive Compensation Plans
- Unit V: Total Quality Management
 - Concept and Principles of Total Quality Management
 - Quality Management Process
 - Productivity and Quality Management

Unit -VI: Professional Management and Skill Development

- Managerial Levels and Skills
- Institution Building : Skills of Top Executive
- Tasks of a Professional Manager

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HRM&LW - 6: BUSINESS COMMUNICATION AND PRESENTATION SKILLS

Section – I

Unit - I: Concept and Nature of Communication

- Process and Objectives of Communication.
- Barriers to Communication.
- Seven Cs of effective communication

Unit - II: Verbal and Non-Verbal Communication

- Meaning of Verbal and Non-Verbal Communication
- Essentials of effective communication,
- Professional dressing and body language.

Unit – III: Types of Speeches

- Managerial speeches
- Presentations and Extempore speech
- Speech of thanks,
- Theme speech.

Section-II

Unit – IV: Effective Presentations:

- Organising Presentation
- Principles of Effective Presentations,
- Qualities of skillful Presenter

Unit –V: Interview Skills:

- Mastering the art of giving interviews in:
- Selection or placement interviews,
- Appraisal interviews,
- Exit interviews,
- Web /video conferencing,
- Skype Interview
- Tele-meeting

Unit – VI: Report Writing:

- Report Planning and outline,
- Types of reports
- Logical Sequencing, Graphs and Charts,
- Executive Summary

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SE-1-: SOCIAL WORK AND SKILL DEVELOPMENT

Section – I

Unit - I: Self Awareness and Development

- Self-concept and Factors affecting Self-concept
- Concept and meaning of Self-Development
- Significance of Self Development for Social Workers

Unit – II: Sensitivity

- Meaning of Sensitivity
- Gender Sensitivity
- Sensitivity regarding Special- Needs

Unit – III: Perception

- Understanding Perception
- Distortions in Perception
- Understanding Stereotypes

Section – II

Unit - IV: Communication

- Concept of Communication
- Communication Process
- Barriers in Communication
- Use of Audio-Visual Media

Unit – V: Skills for Social Work Methods

- Skills for working with Individuals
- Skills for working with Groups
- Simulation Games
- Role Play and Street Plays

Unit – VI: Career and Work

- Models of career choice and development: Holland and Super
- Work life balance: Work holism, family roles, recreation

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Semester III

CC-7: INTRODUCTION TO SOCIOLOGY AND INDIAN SOCIAL PROBLEMS

Section – I

Unit – I: Introduction

- Definition and scope of Sociology
- Basic Concepts of Sociology Society , Groups, Community, Culture and Norms
- Importance of sociology and its relevance to social work practice

Unit – II: Indian Society

- Meaning ,Concept and definitions of Society
- Characteristics of Indian Society
- Social Classification: Tribal, Rural & Urban
- Social Stratification: Caste & Class

Unit – III: Society and Culture

- Culture,
- Customs,
- Traditions,
- Values,
- Norms,
- Folkways and
- Mores

Section – II

Unit – IV: Indian Social Problems-1

- Population explosion
- Corruption
- Terrorism
- Naxalism

Unit – V: Indian Social Problems-2

- Castisism
- Problems of elderly
- Crime and juvenile delinquency
- addiction

Unit – VI: Social Change

- Meaning and Characteristics of Social Change
- Factors Inducing Social Change
- Social disorganization

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- 3. Child Development and socialization Dr.Usha Verghese and Dr.Nisha Waghmare.- (2018) Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
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- 5. Psychology for Social Workers, Dr. Bharati Chavan 2019, Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
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- 27. Indian Social Problems Volume 1 G.R. Madam Sixth Edition, Allied Publishers Pvt. Ltd., Mumbai.

CC – 8: SOCIAL LEGISLATIONS

Section – I

Unit – I: Introduction to Social Laws

- Nature and Scope of Social Legislation
- Objectives of Social Legislation
- Role of the Social Worker in Promoting Social Legislations

Unit – II: Laws Related to Marriage

- The Hindu Marriage Act, 1955
- The Child Marriage Restraint Act. 1929

Unit – III: Laws Related to Children

- Juvenile Justice Act (Care and Protection), 2015
- Right to Education Act, 2009
- Protection of children from sexual offences Act 2013

Section – II

Unit – IV: Laws Related to Women

- The Family Court Act 1984
- The Dowry Prohibition Act, 1961

Unit – V: Protective Laws

- The Sexual Harassment of Women at Work Place (prevention , prohibition and redressal) Act, 2013
- Protection of Women from Domestic Violence Act 2005
- The Pre-conception and Pre-natal Diagnostic Techniques (Prohibition of Sex Selection) Act ,1994

Unit – VI: General Laws

- Right to Information Act, 2005.
- The Scheduled Castes and Scheduled Tribes (Prevention and Atrocities) Act 1989
- Maintenance and Welfare of Parents, Senior Citizens Act, 2007

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CC-9: SOCIAL POLICY AND PLANNING

Section – I

Unit – I: Social Policy

- Concept and definitions of Social Policy and Social Welfare Policy
- Relationship between Social Policy, Social Welfare Policy and Social Development
- Values underlying Social Policy based on the Constitutional Provisions

Unit – II: Approaches to Social Policy

- Unified Approach
- Integrated Approach
- Sectoral Approach

Unit – III: Sectoral Social Policies

- Women's Policy
- Backward Class Policy
- Youth Policy
- Family Policy

Section – II

Unit – IV: Social Planning

- Concept of Social and Developmental Planning
- Scope of Social Planning
- Planning as an Instrument and Source of Policy
- The Constitutional status for Planning

Unit - V: The Machinery of Social Planning.

- Niti Aayog of India The Legal Status, Structure and Functions
- State Niti Aayog
- District Planning Committee

Unit – VI: Process of Planning in India

- Role of Central Government
- Role of State Government
- Role of Panchayat Raj Institution

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FCD – 7: PROGARMMES AND SERVICES FOR CHILDERN

Section – I

Unit – I: Child Welfare

- Concept and Goals of Child Welfare
- Constitutional Provisions for Children in India
- Juvenile Justice (Care and Protection of Children) Act 2015

Unit - II: Special Initiatives for Children

- UN Convention on Rights of Children (CRC)
- National Policy for Children

Unit – III: Family based Programmes / Non- Institutional Services

- Adoption,
- Foster Care,
- Sponsorship

Section – II

Unit – IV: Institutional Services For Children

- Observation Homes
- Juvenile Homes
- Special Homes
- SOS Children's Village

Unit – V: Family Strengthening Programmes (FSP) –

- Integrated Child Development Services (ICDS),
- Child Guidance Clinic,
- Crèches

Unit - VI: Factors Affecting Child Welfare Services

- Social Factors
- Political factors
- Economic factors

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FCD-8 : YOUTH DEVELOPMENT

SECTION-II

Unit – 1: Meaning of Youth

- Concept and definition of Youth
- Characteristics of Youth
- Demographic profile of Youth in India.

Unit – 2: Needs of Youth

- Psycho-social needs.
- Health
- Education
- Employment

Unit -3: Problems of Youth

- Unemployment
- Addictions
- Violence and Crime

SECTION-II

Unit – 4 : Issues concerning Youth

- Identity Crisis
- Youth Unrest
- Casteism
- Politics

Unit – 5 : Youth and Social Change

- Youth as an agent of Social Change
- Youth Movements in India

Unit – 6: Programmes and Policies.

- Youth Policy
- Government Initiatives
- Non-Governmental Initiatives

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FCD-9: Development Communication for Social Workers

SECTION-I

Unit – 1: Concept and Functions of Communication

- Concept and meaning of communication and development communication
- Objectives and importance of communication in development
- Functions of development communication

Unit – 2: Communication Planning

- Meaning and scope of communication planning
- Training for effective communication.
- Role of social worker in development communication

Unit – 3: Communication Process

- Meaning and components of communication process
- Selection of communication channels
- Barriers to communication

SECTION-II

Unit – 4: Organizational Communication

- Meaning and components of organizational communication
- Types of organizational communication
- Process of organizational communication

Unit – 5: Media in Communication

- Audio Visual Media
- Electronic media
- Folk media:

Unit-6: Communication Skills for Development Functionaries

- Writing Skills: News release, feature writing, reports, case studies, stories, letters to the editor
- Verbal Skill : Presentation Skills and Public speaking
- Interfacing with mass media (Film, TV, Press, Radio conferences/interviews) and media advocacy

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URCD -7: URBAN PLANNING AND GOVERNANCE

Section – I

Unit – I: Urban Planning in India

- Concept of city and Town Planning
- Town Planning and Development Plan
- Advantages and Disadvantages of planning schemes
- Problems and challenges in urban planning

Unit – II: Urban Planning Policies and Programs

- Town Planning policy and schemes
- District planning committee
- Metropolitan planning committee

Unit – III Urbanization

- Concept of Urbanization and Smart City
- Factors of Urbanization
- Social Implications of Urbanization

Unit – IV: Urban Governance

- Concept, Meaning and Significance
- History of Local Self Government in India
- Forms of Local Self Government Municipal Council, Municipality and Municipal Corporation.

Unit – V: Statutory Provisions

- The 74th Constitutional Amendment Act, 1992
- Bombay Municipal Corporation Act, 1956
- Housing Policies

Unit – VI: Organizational and Administrative Structure of Municipal Institutions

- Infrastructure and Developmental functions
- State Control over Urban Local Bodies
- Statutory and Non-Statutory functions

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- 13. Social Work in Urban India Nagpaul Hans.
- 14. Urbanisation in India K.C. Sivaram Krishna.

URCD 8 Natural Resource Management and Livelihood Resources

Section I

Unit 1: Introduction

- Meaning and Definition of Natural resources
- Basic natural resources: Jal, Jangal, Jamin, Jan and Janwar
- Relationship between Natural resources and Development

Unit 2: Natural Resource Management

- Definition of Natural Resource Management
- Need of Natural Resource Management
- Social and Political responsibilities for environmental conservation and protection: environmental education, significant political and social movements

Unit 3: Approaches of Natural Resource Management

- Top-down or Command and control
- Bottom-Up (regional or community based NRM)
- Adaptive management
- Integrated approach (INRM)

Section II

Unit 4: Introduction to Livelihood Resources

- Concepts and scope of livelihood
- Types and resources of Livelihood in rural and tribal areas
- Livelihoods and relation with Natural Resource Management

Unit 5 Threats and Challenges to Natural Resources and livelihoods

- Development Programme and Natural Resources
- Environmental issues and natural resources
- Sustainable agriculture and regeneration of rural resources.
- Forest based resources and social forestry;

Unit 6: Sustainable development and natural resources

- Govt. Control over Natural resources
- Sustainable development goals related to natural Resources
- Legislation related to protection of natural resources

- 1. Building School & Community Partnerships through Parent Involvement Key Wright Springate Merill.
- 2. Community Participation Empowering the Poorest Roles of NGO's Surendra Vettivel, Vetri Publisher, New Delhi.
- 3. New Face of Rural India Vivek Bhattacharya Metropolitan, New Delhi.
- 4. Empowering Women Arun Kumar Sarup & Sons., New Delhi.
- 5. Finance Against Poverty Effective Institutions for Lending to Small Farmers and Micro Enterprises in Developing Countries Routledge, London.
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URCD – 9: CO-OPERATIVE PRACTICES IN RURAL DEVELOPMENT

Section – I

Unit – I: Introduction to Co-operation

- Meaning, concepts, & Definition of co-operation
- Philosophy, Values and Principles
- Co-operative Movement
- Fields of co-operation

Unit – II: Co-operatives and rural development

- Types of co-operative societies
- National agencies: NIRD, CAPART
- Cooperative credit societies
- Case studies: Warna Nagar Cooperative Village development projects, Pravra Nagar Cooperative projects, Anand Cooperative dairy project

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Unit – III: Co-operative Legislation

- The Maharashtra Co-operative Societies Act, 1960
- The Indian Co-operative Societies Act, 1904

Section – II

Unit – IV: Role of Co-operatives

- Role of Co-operatives in Poverty Alleviation
- Role of Co-operatives in Agriculture Sector
- Income generation and co-operatives

Unit – V: Fields of Co-operatives

- Labour Co-operatives
- Dairy Co-operatives
- Fishery Co-operatives
- Co-op Banks and credit Societies

Unit – VI: Issues and challenges in co-operatives

- Politics in Co-operation
- Impact of Globalization on Co operatives
- Problems of Co-operative Organization

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- 2. H.R. Mukhi, Co-operation in India & Abroad, R.B. Publications, New Delhi (1989-90).
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HRM&LW - 7: SOCIAL SECURITY AND LAWS RELATED TO WAGES

Section – I

Unit – I: Social Security

- Concept and Meaning of Social Security
- Types of Social Security
- Scope of Social Security

Unit II: Laws Related to Social Security

- The Employees State Insurance Act, 1948
- The Employees Provident Funds and Miscellaneous Provisions Act, 1952
- Maternity Benefit Act, 1961

Unit III:

- A) The Workmen's Compensation Act, 1923
- B) Payment of Gratuity Act, 1972
- C) The Employee's Pension Scheme, 1995

Section – II

Unit - IV: Laws Related to Wages

- The Minimum Wages Act, 1948
- The Payment of Wages Act, 1936

Unit – V: Dispute Settlement Machinery

- Labour Court
- Industrial Tribunal
- National Tribunal

Unit - VI: Execution and Administration of Labour Laws

- State labour department
- The Bombay Labour Welfare Fund Act, 1953.

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- 20. Central Board of Workers Education (1976) Labour Legislation, Nagpur : CBWE Publication

HRM&LW - 8: PUBLIC RELATIONS & CORPORATE COMMUNICATIONS

Section – I

Unit I : Public Relations

- Concept, theory, history & practice of public relations,
- Importance of PR for HR professionals,
- PR campaign & strategies for PR,
- Evaluating PR activities

Unit II: Media Relations

- Building and maintaining credible relationship with media
- Developing methodologies for successful practice of media relations
- •

Unit III: Public Opinion -

- Meaning and Definition
- Roots of Public Attitudes Culture, Family, Religion, Economic and Social Classes
- Role of PR in opinion formation.

Section - II

Unit IV : Communication

- Definition and Characteristics
- Objectives of Communication
- Types of Communication

Unit V : Corporate Communication

- Introduction to corporate communication,
- Online public relations in Corporates

Unit VI : Communication Management

- Presentation skills
- Developing strategic communication plan
- Event Management

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HRM&LW – 9: PERSONNEL MANAGEMENT

Section – I

Unit – I: Introduction

- Definitions and Scope of Personnel Management
- Principles of Personnel Management
- Personnel Department and Functions

Unit – II: Manpower Planning

- Meaning and Definition of Manpower Planning
- Objectives of Manpower Planning
- Short Term and Long Term Manpower Planning

Unit – III: Recruitment

- Recruitment Sources and Process
- Steps in Scientific Selection
- Induction and Placement

Section – II

Unit – IV: Personnel Policies

- Aims and Objective of Personnel Policies
- Need for Personnel Policies
- Sources of Personnel Policies
- Types of Personnel Policies

Unit – V: Personnel Audit

- Meaning of Personnel Audit and Research
- Objectives of Personnel Audit
- Need and Importance of Personnel Audit

Unit – VI: Personnel Research

- Meaning and Characteristics of Personnel Research
- Methods and Tools of Personnel Research

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AE-2: ENVIRONMENTAL ISSUES AND DISASTER MANAGEMENT

Section – I

Unit – I: Introduction

- Concept and Definitions of Environment
- Physical, Social and Communal Environment
- Environment Education; need and objectives
- Global Environmental Issues

Unit – II: Approaches and Models of Environment Education

- Service approach and Action approach
- Sustainable development approach
- Interdisciplinary model and Multi disciplinary model
- Social Deveopment model and Economic development model

Unit – III: Concepts in Disaster Management

- Disasters, Risks, Hazards, Vulnerability, Disaster Cycle
- Relief and Rehabilitation in Disaster, Logistic Management
- Disaster preparedness and disaster mitigation
- Initiatives in disaster management

Section – II

Unit – IV: Classification of Disasters

- Meaning of Natural and Human made disasters.
- Types of disasters: Famine and drought, Floods, Cyclone, Storms, Tsunami, Earthquakes, Riots, Industrial Accidents, Road-Air-Rail Accidents, Bomb-blast and explosions, War, Avalanches and landslides.

Unit – V: Disaster Responses and Mitigation:

- Prevention and preparedness Disaster response at various stages of disasters: evacuation and rescue; emergency supplies; early warning systems and vulnerability reduction; disaster financing: provisions and procedures.
- Aid administration and management
- Technological options for disaster response and preparedness

Unit – VI: Relief and Rehabilitation

- Relief Damage and needs assessment.
- Rehabilitation and Recovery Planning for rehabilitation and recovery, displacement and resettlement.
- Community Participation and capacity building for facing disasters
- Disaster Management Act, 2005.

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- 16. Assistance, SBS Publishers & Distributors Pvt. Ltd.

SEMESTER IV CC- 10: COUNSELLING IN SOCIAL WORK

Section I

Unit – I: Conceptual Framework

- Concept, definitions, and Scope of Counselling
- Counselling- as an Art and Science
- Levels and types of Counselling
- Principles of Counselling

Unit - II: Counselling Goals and Skills

- Goals of Counselling
- Essential Qualities for a Counsellor
- Counselling Skills

Unit – III: Phases in the Counselling Process

- Attending Phase
- Exploration Phase
- Understanding / Problem Analysis Phase
- Action Phase
- Termination Phase

Section – II

Unit - IV: Techniques and Models of Counselling

- Directive Model
- Non-directive Model
- REBT Model
- Transactional analysis

Unit - V: Counselling in Various Settings - I

- Sexuality Counselling
- HIV/AIDS Counselling
- Marriage Counselling

Unit - VI: Counselling in Various Settings -II

- De- Addiction Counselling
- Industrial Counselling
- School Counselling

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CC - 11: INTRODUCTION TO CONSTITUTION AND HUMAN RIGHTS

Section – I

Unit – I: Nature of the Constitution

- Nature and Concept of the Indian Constitution
- Historical background of Indian Constitution.
- The Preamble
- Special Features of the f Indian Constitution

Unit – II: Philosophy of the Constitution

- Independent and Sovereign
- A Representative Democracy and Democratic Society.
- Political, Economic and Social Justice.
- Liberty, Equality and Fraternity.

Unit – III: Fundamental rights

- Fundamental rights,
- Fundamental duties
- Directive principles of state policies

Section – II

Unit – IV: Introduction to Human Rights:

- Nature, Concept and Definitions of Human Rights
- Historical Background of Human Rights at the International Level
- Historical Background of Human Rights in India

Unit – V : Human Rights Framework in India:

- Protection of Human Rights Act, 1993
- Composition, role and Functions of NHRC;
- Composition, role and Functions of SHRCs;

Unit VI: Rights of Vulnerable sections

- Women and children
- Schedule Caste
- Schedule tribe, NT, DNT, VJNT
- Elderly people

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 - b) Bonded Labour System (Abolition) Act, 1976
 - c) Child Labour Issues & Child Labour (Prohibition and Regulation) Act, 1986
 - d) SC/ST issues & Scheduled Caste and Scheduled Tribe (Prevention of Atrocities) Act, 1989, Civil Liberties Act, 1988 & The Forest Rights Act, 2006

CC-12: COMMUNITY HEALTH AND HEALTH CARE SYSTEM

Section – I

Unit – I: Community Health

- Concept and definitions of Health, Standards of Health,
- Individual and community health
- Factors Affecting Health
- Concept of Diseases, Classification of diseases ,Mode of Transmission of Diseases

Unit – II: Public Health and Health Care Services

- History of Public Health in India
- Public Health Programmes in India- Village, Block, District Levels
- Health Policy and Administration

Unit – III: Government Initiatives in Public Health

- National Urban Health Mission-Objectives, Structure, Services
- National Rural Health Mission- Objectives, Structure, Services
- Issues in Public Health services

Section – II

Unit - IV: Prevention and Control of Diseases

- Concept of Control and Prevention of diseases
- Prevention and Control of : Communicable Diseases, -
- Measles ii) Mumps iii) Polio iv) Chicken Pox v) Rubella vi) Tetanus vii) Whooping cough viii) Diphtheria
- Levels of Prevention : Primary level, Secondary level & Tertiary level

Unit – V: Malnutrition

- Concept and Definition of Malnutrition
- Social aspects of Nutrition
- Diseases and Conditions related to Malnutrition
- Vitamin deficiency, Anemia, Iodine deficiency

Unit -VI: Community Health Care and Social Work

- Health Education and Counseling
- Application of Social Work Methods in Health Care
- Role of Social Worker in Community Health Care Programme

- 1. Dr. Anuradha Patil and Dr.V.V.Kulkarni, (2014),HIV/AIDs and Coping Machanism, Published by Laxmi Book Publications, Solapur. ISBN – 978-1-329-07277-0
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FCD-10: FAMILY COUNSELING

SECTIOMN-I

Unit 1: Family as a System

- Characteristics of a Healthy Family
- Stages of Family Development
- Holistic Family Assessment

Unit 2: Marital issues

- Alternatives to Marriage
- Marital Conflict
- Divorce And Remarriage

Unit 3: Marriage and Family Counselling

- Marriage and Marital Relationships
- Marital Adjustment
- Pre-Marital and Marital Counselling

SECTION-II

Unit 4:Intervention in Family Related Issues- I

- Sexuality Counselling
- Infertility Counselling
- Pregnancy related Counselling

Unit 5: Intervention in Family Related Issues- II

- Pre and Post Adoptive Counselling
- Child Related Issues
- Domestic Violence

Unit 6: Techniques and Approaches in Family Counselling

- Directive Non Directive- Eclectic Approach
- Rational Emotive Therapy
- Transactional Analysis

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FCD – 11: GENDER STUDIES

Section-I

Unit 1: Introduction

- Gender Studies Concept, Meaning and Definition
- Women Studies- Concept and Importance
- Social Construction of Gender

Unit 2: Gender Issues

- Gender and Class
- Gender and Religion / Caste
- Gender and Sexuality

Unit 3: Feminism

- Concept and Meaning of Feminism
- Major Feminist Issues
- Importance of Feminism in Social Work

Section –II

Unit 4: Gender and Culture

- Culture and Feminism
- Gender Inequities
- Media and Gender

Unit – V: Contemporary Issues of Women

- Issues of SC,ST,OBC & VJNT Women
- Female Foeticide
- Domestic Violence

Unit – VI: Gender Policy and Programmes

- National and State policy for Women empowerment
- Governmental and NGO Initiatives
- Role of Women's Commision

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- 2) Psychology for Social Workers, Dr. Bharati Chavan 2019, Published by School of Distance Education, Bharati Vidyapeeth Deemed University, PUNE
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- 5) Sindevani L. Lall Some thoughts of Social Education.
- 6) Mehar C. Nanavatty Social Education.
- 7) N.R. Roy Social Education.
- 8) Sohan Singh Social Education.

FCD – 12: INTRODUCTION TO GERONTOLOGY

SECTION-I

Unit – I: Introduction to Gerontology

- Concept and Definition of Gerontology
- Concept and Process of Aging
- Demography of Ageing

Unit – II: Problems of Ageing

- Dementia
- Alzheimer
- Elder Abuse

Unit – III: Sociology of Ageing

- Socio-cultural Aspects of Aging
- Family and Kinship Relations
- Feminization of Ageing

SECTION-II

Unit – IV: Psychology of Ageing

- Memory loss
- Personality disorders
- Mental health

Unit – V: Policy, Programmes and Services of the Ageing:

- National Policy on Ageing
- Constitutional Provisions for Elderly Care
- The Maintenance and Welfare of Parents and Senior Citizen Act, 2007.

Unit – VI: Interventions Strategies

- G.O/NGO Initatives for Elderly Care
- Social Work Intervention
- Nontraditional Approaches in Intervention Music, Art, Drama, Pet Therapy

- 1. Gokhale. S.D., Elder Abuse, the South Asian Context, International Longevity Centre India.
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- 8. Modi Ishwar., Ageing Human Development, Rawat Publications
- 9. Ageing in Asia and the Pacific: Emerging Issues and Successful Practices, United Nations Publication
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URCD 10 SUSTAINABLE DEVELOPMENT

Unit 1: Sustainable and Inclusive Development – Genesis and Definition

- Definition and concept of Human Development, Sustainable and Inclusive Development
- Approaches of Sustainable Development
- Genesis of Sustainable and Inclusive Development

Unit 2: Mechanisms for Sustainable and Inclusive Development

- Mechanisms in Indian context (government, non-government, CSR, International Development Agencies)
- Planning Process of SD : five year plan to NITI Aayog
- Current schemes and Programmes of S & I D
- Impact of Schemes and Programmes

Unit 3: Social Implications of Inclusive Development

- Inclusive Development and social Integration
- Inclusive Development and upliftment of weaker sections
- Inclusive Development and Women Empowerment

Section II

Unit 4: Sustainable development Goals and Indicators (I)

GOAL 1: No Poverty

GOAL 2: Zero Hunger

GOAL 3: Good Health and Well-being

GOAL 4: Quality Education

GOAL 5: Gender Equality

GOAL 6: Clean Water and Sanitation

Unit 5: Sustainable development Goals and Indicators (II)

GOAL 7: Affordable and Clean EnergyGOAL 8: Decent Work and Economic GrowthGOAL 9: Industry, Innovation and InfrastructureGOAL 10: Reduced InequalityGOAL 11: Sustainable Cities and CommunitiesGOAL 12: Responsible Consumption and Production

Unit 5: Sustainable development Goals and Indicators (III)

GOAL 13: Climate Action GOAL 14: Life Below Water GOAL 15: Life on Land GOAL 16: Peace and Justice Strong Institutions GOAL 17: Partnerships to achieve the Goal

URCD 11: COMMUNITY PARTICIPATION AND MANAGEMENT

Section – I

Unit – I: Introduction to Community participation

- Meaning and Concept of Community participation
- Need and significance of community participation
- Community organization and community participation

Unit - II: Community participation - Stages, techniques, process

- Stages of community participation
- Techniques and tools of community participation
- Process of community participation

Unit - III: Community Participation and Panchyat raj

- Social Inclusion and community participation
- community participation in PRIs
- Dynamics in community participation

Section – II

Unit – IV: Areas of community Management

- Community Management Concept and significance
- Management of community based services
- Management of Community infrastructure

Unit – V: Community Managerial skills

- Recording and documentation
- Community organization skills
- Project management skills
- Group facilitation and community consultation skills

Unit - VI:Community project monitoring and evaluation

- Developing MIS
- Monitoring and supervision
- Project Evaluation
- Impact Assessment

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URCD – 12: TRIBAL DEVELOPMENT

Section – I

Unit I - Introduction to tribal development

- Tribal Community and its characteristics
- Tribal habitat and its characteristics
- Constitutional provisions for Tribals

Unit – II: Statutory Safeguards

- 73rd Constitutional Amendment
- Forest Rights Act, 2006
- Biodiversity Act 2002

Unit – III: Developmental Issues of Tribals

- Economy: Poverty and Unemplyoment
- Health, Education and Social exploitation
- Impact of urbanisation and industrialisation on tribal communities

Section – II

Unit – IV: Tribal Development Policy and Programmes

- Concept of Integrated Tribal Development & Tribal Sub-Plan
- Tribal Development Policy 2004
- Programmes for Tribal Development

Unit – V: Livelihoods for Tribal Community

- Sources of Livelihoods and Assets development
- Infrastructural Development
- Natural development and Environmental development

Unit – VI: Tribal Development Administration

- Tribal power structure and community dynamics
- District level administration
- State level administration
- National level administration

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HRM&LW – 10: LABOUR WELFARE

Section – I

Unit – I: Introduction to Labour Welfare

- Concept and definitions of labour welfare
- Objectives of labour welfare
- Current trends in labour welfare

Unit- II: Labour Welfare Policy & Practices in India

- National policy on labour welfare
- Agencies of labour welfare
- Role of labour welfare officer

Unit – III: Types of Labour Welfare

- Intra-mural and Extra-mural Labour Welfare Facilities
- Statutory and Non-statutory Welfare Facilities

Section – II

Unit – IV: Welfare of Special Category Labour

- Female Labour
- Child Labour
- Construction Labour
- Agriculture Labour and other unorganized sector labour

Unit - V: Maharashtra Labour Welfare Board

- Structure of Maharashtra Labour Welfare Board
- Activities/Schemes of Maharashtra labour welfare board

Unit – VI: Social Work in Industry

- Meaning and Concept of Industrial Social Work
- Application of Social Work Methods
- Employee Counselling

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HRM&LW – 11: INDUSTRIAL RELATIONS AND CASE STUDIES

Section – I

Unit – I: Introduction

- Concept and Definitions of Industrial Relations
- Objectives and Scope of Industrial Relations
- Factors of Good Industrial Relations

Unit - II: Agencies of Industrial Relations

- The Role of Government
- Changing role of trade unions in industrial relations
- Role of employers in industrial relations

Unit - III: Collective Bargaining

- Meaning and definitions of collective bargaining
- Types of collective bargaining
- Workers participation in industrial relations

Section – II:

Unit - IV: Industrial Disputes and Settlement Machinery

- Definition of Industrial Disputes
- Settlement Machinery :
 - Conciliation
 - Arbitration
 - Adjudication

Unit –V: Futuristic Issues in Industrial Relations

- Redesigning Industrial Relations
- Impact of Globalisation on Industrial Relations

Unit – VI: Case Studies in Industrial Relations

- Case Studies Related to:
 - Strike, Lockout, Layoff,
 - Retrenchment, Termination,
 - Discharge and Dismissal,
 - Principles of Natural Justice

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HRM&LW – 12: PERFORMANCE MANAGEMENT

Section – I

Unit – I: Introduction to Performance Management

- Meaning and Definition of performance management.
- Scope of performance management.
- Effectiveness of performance management

Unit – II: Application of Performance Management

- Developing an effective MIS
- Performance feedback system
- Performance management and job evaluation

Unit – III: Performance Management Process

- Defining performance measures
- Types of measures
- Criteria for performance measures
- Setting performance standards

Section – II

Unit - IV: Developing and Maintaining Performance Management Systems

- Introducing Performance Management to employees and enabling learning about performance management
- Performance management training
- Evaluating performance management

Unit - V: Impact of Performance Management Systems on Individuals and Organizations

- Role of Performance management for improving employee performance
- Strategic linkages in Performance management
- Achievement of organizational goals

Unit – VI: Evaluation of Performance Management Systems

- Balance Score card as management system
- Linking multiple score card measures to a single strategy
- The Balance score card model- Financial perspective, Customer perspective, Internal Business Process Perspective, Learning and Growth Perspective

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SE-2 : MEDIA AND DEVELOPMENT

Section – I

Unit – I: Understanding Media

- Concept and meaning of Media
- Scope of media in development
- Role of Media in a Democracy
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Unit – II: Types of Media:

- Print Media
- Electronic media
- Folk and cultural media
- Challenges for media

Unit – III: Media and Development – I

- Role of Press in Social & Political Movements
- Freedom of Press
- Role of Press Council of India

Section – II

Unit – IV: Media and Development – II

- Representation of Different Groups- Stereotyping and Labelling in Media
- Content of Newspaper: News Stories, Features, Articles, Editorial, Advertorial, Advertisements & Public Relations

Unit -V: Media and Society

- Understanding the Role of Media in Development
- Writing on Development Issues
- Media as Public Service
- Media and Civil Society

Unit – VI: Advertising

- Role of Advertising in Marketing
- Types of Advertisements
- Ethics in Advertising

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