

# TEERTHANKER MAHAVEER COLLEGE OF PHARMACY

(A COLLEGE OF TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD)

(APPROVED BY "PHARMACY COUNCIL OF INDIA")

Date: 12/07/2024

#### Minutes of meeting of Board of Studies (BoS) in Pharmacy

The board of studies meeting was held on 12/07/2024 at Teerthanker Mahaveer College of Pharmacy at 10:00 AM to deliberate over agenda placed before the members by the chairman.

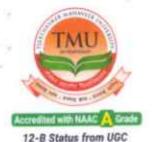
No.	Name of BoS Member	Designation		
I	Prof. Anurag Verma	Chairman		
2	Prof. Farhan Jalees Ahmad	External Expert		
3	Prof. Harish Dureja	External Expert		
4	Prof. Prithpal Singh Matreja	Vice-Chancellor Nominee		
5	Prof. Piyush Mittal	Professor		
6	Prof. Bhupendra Singh	Professor		
7	Prof. Phool Chandra	Professor		
8	Prof. Mukesh Singh Sikarwar	Professor		
9	Prof. K. K. Sharma	Professor		
10	Dr. Mayur Porwal	Associate Professor		
11	Dr. Prashant Kumar	Associate Professor		
12	Dr. Vaibhav Rastogi	Associate Professor		
13	Dr. Pushpendra Kr Shukla	Associate Professor		
14	Dr. Geetanjali Saini	Associate Professor		
15	Dr. Sumit Durgapal	Associate Professor		
16	Dr. Rajesh Kr Sharma	Associate Professor		
17	Mr. Ashish Singhai	Associate Professor		
18	Mr. Raghvendra Mishra	Associate Professor		
19	Mr. Harish Chandra Verma	Associate Professor		

@ 12/1/m



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Resolution

Agenda point

Review of Syllabus: An indepth review of the syllabus of various pharmacy programs concerning the National Education Policy (NEP) and Outcome-Based Education (OBE).

Regarding NEP: Alignment with NEP requires following components:

- a. Multidisciplinary approach
- b. Choice Based Credit System (CBCS)
- c. Skill Development
- d. Research and Innovation
- i. Pharmacy programs are regulated by Pharmacy Council of India (PCI). It is mandatory to follow PCI syllabus given in regulations which are gazetted (Education regulation 2014 (B Pharm) and Diploma Regulation 2020 (D Pharm), Pharm D regulation 2008(Pharm D & Pharm D (PB) and M Pharm regulation 2016). Additional modification will put unnecessary burden on the students.
- ii. We have already implemented CBCS for B Pharm, M Pharm & Pharm D & Pharm D (PB) programs.
- iii. Skill development courses are already the part of the curriculum of various Pharmacy programs (Annexure----)
- iv. As far as research and innovation is concerned. both of our UG/PG programs have Internship/Clerkship/Dissertation/Projects (Annexure-2---).

Regarding OBE: Alignment with OBE requires following components:

- a. Defining learning outcomes: Program outcome (PO), Course Outcome (CO), Program Specific Outcomes (PSOs) (annexure 3 .- ).
- b. Curriculum Mapping

# According with NAAC A Grade

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12-B Status from UGC

		c. Assessment and Evaluation d. Faculty Training and Development e. Industry Collaboration f. Continuous improvement
		<ol> <li>POs, COs &amp; PSOs of all Pharmacy programs are clearly defined.</li> </ol>
		ii. Curriculum mapping is in practice (Annexure-
2		<ol> <li>Assessment &amp; Evaluation although in practice but requires continuous training of faculty members.</li> </ol>
		iv. Faculty development and training programs at present taken care off by CTLD but there is need to design such programs on Department basis also.
		v. There is need to sign MoUs with Industry and Educational Institutes of eminence. For this there is need to form a Research Advisory Board (Annexure-5).
		vi. Feedback mechanism on syllabus and teaching methods, involving students, alumni and employers already in place.
	Finalization of External Examiners	Approved By BoS
	Result Analysis	Appreciated by BoS (Annewwo6)
	Anomalies correction in Pharmacy Programs	All the observed anomalies in the form of typographical errors in the previously approved syllabi of Pharmacy programs (B Pharm; M Pharm; Pharm D & Pharm D (PB) & D Pharm have been resolved.
	Department Progress	Appreciated by BoS ( Annex mer)
HILLIAN	Expert Advice on Practice School/Internship	BoS experts suggested formation of committee to develop Standard operating Procedure for Practice



Recommendations for

Syllabus Upgradation

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School and Internship (Annexure). The BoS is of the view that, in practice School, student or group of students should deliver educational sessions to various Schools in Teerthanker Mahaveer University. Educational sessions may be based on diverse topics in Pharmacy Practice, Pharmacovigilance, Community Pharmacy, Hospital Pharmacy, Chemist Shop etc.

For this purpose, timetable should be adjusted in such a way to accommodate such activities.

There is no need to modify the PCI regulates Syllabus.

Changes approved in the study and evaluation scheme of the following Pharmacy Programs

Pharm D: The BoS is of the opinion that there is no need to include Open Elective Course (OEC) that will simultaneously run with the internship of Pharm D sixth year students. So, the BoS recommended the removal of following OECs from Pharm D sixth year curriculum:

- 1. First Aid (PAR-501)- 3 credits
- 2. Emergency Care (PAR-502) 3 credits

#### D Pharm:

i. Minimum marks for passing the examination -A student shall not be declared to have passed Diploma in Pharmacy examination unless he/she secures at least 40% marks in each of the subjects separately in the theory as well as the practical examinations, including sessional marks. The candidates securing 60% marks or above in aggregate in all subjects shall be declared to have passed in first class. The candidates securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in that subject or those subjects. The grant of first class and distinction shall be subject to the condition that the

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candidate shall pass all the subjects in a single attempt.

- ii. Credits updated for theory courses 8 credit and for practical courses 3,1 credits and as per the hours (Annexure)
- Soft Skills at Workplace for Junior Pharmacists TDC202 Self-Development for Junior Pharmacists TDC102. As per the TMU ordinance and suggestion received from meeting CTLD.

Meeting ended with the vote of thanks.

Prof. Allurag Verma

of Prithnal Singh Matreia

Prof. Phoof Chandra

Dr. Mayur Porwal

Dr. Pushpendra Kr Shukla

Dr. Rajesh Kr Sharma

Mr. Harish Chandra Verma

Prof. Farhan Jalees Ahmad

Prof. Tiyush Mittal

Prof. Mukesh S Sikarwar

Dr. Prastrat Kamar

Dr. Geetanjali Saiņi

Mr. Ashish Singhai

Prof. Harish Dureja

8600

Prof. Bhupendra Singh

Prof. K. K. Sharma

Dr. Vaibhay Rastogi

Dr. Sumit Durgapal

Mr. Raghvendra Mishra

# Teerthanker Mahaveer University



College of Pharmacy

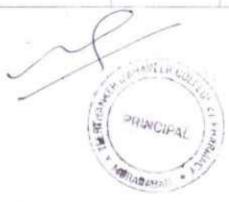
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List of Programmes Stating total no of skill development, employability and entrepreneurship courses

S.No.	Programme	Laboratory Course for skill development	Employability Course	Entrepreneurship Course
1	BPharm	27	4	4
2	M Pharm (Pharmaceutics)	12	7	2
3	M Pharm (Pharmacology)	12	7	2
4	Pharm D	23	11	4
5	Pharm D (PB)	8	7	3
6	M. Pharm. (Pharmaceutical Analysis)	12	- 7	2
7	M. Pharm. (Pharmacognosy)	12	7	2
	TOTAL	98	43	16



### Semester - VII

SV	N. Category Course		Course		rds.		Credits	Evaluation Scheme		
14	Carried States	Code		L	T	P		Internal	External	Total
- 1	CC-29	BPHT701	Instrumental Methods of Analysis	3	1		4	25	75	100
2	CC-30	BPHT702	Industrial Pharmacy II	3	Ţ		4	25	75	100
3	CC-31	BPHT703	Pharmacy Practice	3	-1		4	25	75	100
-4	CC-32 7	BPHT704	Novel Drug Delivery System	3	1	,	4	25	75	100
5	SEC-27	BPHP751	Instrumental Methods of Analysis		2	4	2	15	35	50
1	SEC-28	BPHP752	Practice School/Internship		-	12	6	25	125	150
			Total	12	4	16	24	140	460	600

#### Semester - VIII

			Semeste	1 - 4						
		Course	Comme		erio(	ls	Credits	Evaluation Scheme		
S.N.	Category	Code	Course	I.	T	P	Credits	Internal	External	Total
- 1	CC-13	BPHT801	Biostatistics and Research Methodology	3	1		4	25	75	100
2	CC-34	BPHT802	Social and Preventive Pharmacy	3	1		4	25	75	100
		BPHT803	Pharmaceutical Marketing Management							
		ВРНТ804	Pharmaceutical Regulatory Science							
		BPHT805	Pharmacovigilance							
		ВРНТ806	Quality Control and Standardization of Herbals							
	12	BPHT807	Computer Aided Drug Design Cell and Molecular	9	9 71		2000000			
30	DSECT	BPHT808	Biology	m	7		4+4=8	50	150	200
	S	BPHT809	Cosmetic Science	65	-					
	Eq.	ВРИТЯ10	Pharmacological Screening Methods		-					
		BPHT811	Advanced Instrumentation Techniques							
		BPHT812	Dietary Supplements and Nutraceuticals							
		BPHT813	Pharmaceutical Product Development							
X	PW	BPHP851	Project Work	-	100	12	- 6	(40)	150	150
			Total	12	4	16	22	100	450	550

#### 2 Two courses to be opted as electives out of Eleven

		Note:	
1 Lecture	T- Tutorial	P- Practical	C- Credits
L. Hour	T = I Hour	1P = 1 Hour	1C = 1 Hour L or T1C = 2 Hour P

8 hams

#### Fifth Year

S. N.	Category	Course	Course		Peri	ods	
		Code		L	S	P	Credit
1	CC-24	PDR501	Clinical Research	3	1	-	8
2	CC-25	PDR502	Pharmacoepidemiology and Pharmacoeconomics	3	1	(4.)	8
3	CC-26	PDR503	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	1	4	6
4	SEC-22	PDR551	Clerkship*	-	1	24	2
5	PW-1	PDR552	Project Work (Six Months)			20	20
6	SEC-23	TPC 501	Soft skills for Workplace Pharmacy Specialist			2	1
			Total	8	4	22	45

#### Sixth Year

#### Internship:

Internship or residency training including postings in specialty units. Students will independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other specialty departments
  - Pediatrics
  - · Gynecology and Obstetrics
  - Psychiatry
  - Skin and VD
  - · Orthopedics

fhanm D (OB)

#### Second Year

S.N.	Category	Category Course Course		1			
100	Category	Code	Course	L	S	P	Credits
1	CC-8	PDR501	Clinical Research	3	1		8
2	CC-9	PDR502	Pharmacoepidemiology and Pharmacoeconomics	3	1		8
3	CC-10	PDR503	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	1	30	6
4	SEC-7	PDR551	Clerkship*		1		2
- 5	PW-1	PDR552	Project Work (Six Months)	-		20	20
6	SEC-8	TPC 501	Soft skills for Workplace Pharmacy Specialist			2	1
			Total	8	7	22	45

#### Third Year

#### Internship:

Internship or residency training including postings in specialty units. Students will independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other specialty departments
  - Pediatrics
  - · Gynecology and Obstetrics
  - Psychiatry
  - · Skin and VD
  - · Orthopedics

Table 2.2; Course of study for Ms Pharm. (Common for All Specializations)

		M. Pharm. III Semester (Common for All Specializations)		
Category	Course Code	Course	Credit Hours	Credit Points
CC-9	MRM301T	Research Methodology and Biostatistics*	4	4
SEC-7	MRM302	Journal Club	1	1
SEC-8	MRM303	Discussion / Presentation (Proposal Presentation)	2	2
SEC-9	NIRM304	Research Work	28	14
		Total	35	21

SEC-Skill Enhancement Course

\*Non-University Examination

Table 2.3: Course of study for M. Pharm. (Common for All Specializations)

		M. Pharm. IV Semester			
Category	Course	Course	Credit Hours	Credit Points	
SEC-10	MR34401	Journal Club	1	1	
SEC-11	MRM402	Discussion / Presentation (Final Presentation)	3	3.	
SEC-12	MRM403	Research Work & Colloquium	31	16	
(1) (1) (1) (1) (1) (1) (1) (1)		Total	35	20	

Table 2.4: Guidelines for Awarding Credit Points for Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)

Name of the Activity	Maximum Credit Points Eligible / Activity
Participation at National level	1
Participation at International level (Held outside India)	2
Academic Award/Research Award from State Level/National Agencies	1
Academic Award/Research Award from International Agencies	2
Research / Review Publication in National Journals (Indexed in Scopus / Web of Science)	1
Research / Review Publication in International Journals (Indexed in Scopus / Web of Science) [The editorial Board outside India]	2
Value added courses/MOOC courses/workshop for skill enhancement	2

"International Journal: The Editorial Board outside India.

<sup>\*\*</sup>The credit points assigned for extracurricular and or co-curricular activities shall be given by the principals of the colleges and the same shall be submitted to the University.



# PROGRAM CUTCOMES [ PC]

## 1. Competencies for the Indian D. Pharm Holders

Competency is defined as "A distinct composite of knowledge, skill, attitude and value that is essential to the practice of the profession in real life contexts".

The candidates who successfully complete the Diploma in Pharmacy (D. Pharm)program of Education Regulations 2020 (ER-2020), from the institutions approved by the Pharmacy Council of India are expected to attain the following professional competencies.

- 1. Review Prescriptions
- 2. Dispense Prescription / Non-Prescription Medicines
- 3. Provide Patient Counselling / Education
- 4. Hospital and Community Pharmacy Management
- Expertise on Medications
- 6. Proficiency on drugs / pharmaceuticals
- 7. Entrepreneurship and Leadership
- 8. Deliver Primary and Preventive Healthcare
- 9. Professional, Ethical and Legal Practice
- 10. Continuing Professional Development
- 1. Review Prescriptions: The student should receive and handle prescriptions in aprofessional manner and be able to check for their completeness and correctness. Also, the prescribers should be contacted for any clarifications and corrections in the prescriptions with suggestions if any.
- 2. Dispense Prescription / Non-Prescription Medicines: The student should be able to dispense the various scheduled drugs / medicines as per the implications of the Drug & Cosmetics Act and Rules thereunder. Also, the non-prescription medicines (over-the-counter drugs) should be dispensed judicially to the patients as required.
- 3. Provide Patient Counselling / Education: The student should be able to effectively counsel / educate the patients / caretakers about the prescription / non- prescription medicines and other health related issues. Effective communicationincludes using both oral and written communication skills and various communicationtechniques.
- 4. Hospital and Community Pharmacy Management: The student should be able to manage the drug distribution system as per the policies and guidelines of the hospital pharmacy, good community pharmacy practice and the recommendations of regulatory agencies. Also, be able to manage the procurement, inventory, and distribution of medicines in hospital / community pharmacy settings.

- 5. Expertise on Medications: The student should be able to provide an expert opinion on medications to health care professionals on safe and effectivemedication-use, relevant policies and procedures based on available evidences.
- 6. Proficiency on Pharmaceutical Formulations: The student should be able to describe the chemistry, characteristics, types, merits and demerits of both drugs and excipients used in pharmaceutical formulations based on her/his knowledge and scientific resources.
- 7. Entrepreneurship and Leadership: The student should be able to acquire the entrepreneurial skills in the dynamic professional environments. Also, be able to achieve leadership skills through teamwork and sound decision- making skills.
- 8. Deliver Primary and Preventive Healthcare: The student should be able to contribute to various healthcare programs of the nation including disease prevention initiatives to improve public health. Also contribute to the promotion of national healthpolicies.
- Professional, Ethical and Legal Practice: The student should be able to deliver professional services in accordance with legal, ethical, and professional guidelines with integrity.
- 10. Continuing Professional Development: The student should be able to recognize the gaps in the knowledge and skills in the effective delivery of professional services from time to time and be self-motivated to bridge such gaps by attending continuing professional development programs.

B. Phony. Amexue - 3

#### Program Outcomes (POs):

SI. No.	Program Outcomes (POs)
,PO-1	Acquiring and retrieve sound knowledge on fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
PO-2	Understanding and communicate the value of pharmacist's professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
PO - 3	Understanding the environmental, economic and societal impact of pharmacy.
PO - 4	Developing ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies, Hospital & Community Pharmacy.
PO - 5	Developing written and oral communication skills.
PO-6	Developing creativity to solve need based problems in pharmaceutical Industry.
PO-7	Developing professional ethics, entrepreneurship, leadership and team spirit.

#### Program Specific Outcomes (PSOs):

St. No.	Program Specific Outcomes (PSOs)
PSO-1	Understanding the basic concepts of homeostasis, disease etiology and their management with drugs and pharmaceuticals
PSO-2	Understanding the various concepts of development of drug and pharmaceuticals
PSO-3	Understanding the marketing concepts and management techniques for regulating and distributing drug and pharmaceuticals
PSO-4	Understanding the basic concepts of quality assurance in pharmaceutical manufacturing, distribution and warehousing.
PSO-5	Understanding and demonstrating knowledge of regulatory guidelines pertaining to export and import of drugs
PSO - 6	Describing various requirements and methodology used for manufacturing and quality control of various pharmaceutical and cosmetic products
PSO -7	Demonstrating use of various instruments and equipment with their standard operating procedures (SOPs) for the analysis of drugs and pharmaceuticals
PSO-8	Promoting safe and rational use of medicines

D. Pedagogy & Unique practices adopted: "Pedagogy is the method and practice of teaching, especially for teaching an academic Course or theoretical concept". In addition to conventional time-tested lecture method, the institute will emphasize on experiential learning.

### gram Outcomes and Program Specific Outcomes (PSOs)

Pharm D Ampare-3

The learning and abilities or skills that a student would have developed by the end of six-year PharmD

Program Outcomes (POs):

Sl. No.	Program Outcomes (POs)
1.	Acquiring and retrieve sound knowledge on fundamental principles and their applications in the area of Pharmaceutical Sciences.
-2.	Understanding and communicate the value of pharmacist's professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
3.	Developing ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies, Hospital and Community Pharmacy Services.
4.	Developing written and oral communication skills.
5.	Developing creativity to solve need based problems in pharmaceutical Industry as well as in healthcare systems for raising quality use of medicine.
6.	Developing professional ethics, entrepreneurship, leadership and team spirit.

Program Specific Outcomes (PSOs):

Sl. No.	Program Outcomes (PSOs)
1.	Understanding the basic concepts of homeostasis, disease etiology and therapeutic management with their principles and applications.
2.	Understanding the various concepts of development of drug and pharmaceuticals
3.	Describing various requirements and methodology used for manufacturing and quality control of various pharmaceutical and cosmetic products.
4.	Demonstrating use of various instruments and equipment with their standard operating procedures (SOPs) for the analysis of drugs and pharmaceuticals.
5.	Demonstrating the ability to compound extemporaneous and commercially available dosage forms, dispense, and administer medications in a variety of healthcare settings.
6.	Applying standards, guidelines, best practices, and established processes related to safe and effective medication use.
7.	Conducting various pharmaceutical research studies such as identify and report drug related problems, ADRs, drug-drug interactions, drug toxicities, DUR etc. during pharmacy practice in clinics/hospitals.
8.	Developing and providing an evidence-based approach to care that considers the cost, care, access, and satisfaction needs of a targeted patient population.
9.	Developing research instinct in the area of community, hospital and clinical pharmacy.

Pharm D(PB)
Annexue - 3

#### Program Outcomes and Program Specific Outcomes (PSOs)

The learning and abilities or skills that a student would have developed by the end of threeyear Pharm.D (Post Baccalaureate)

Program Outcomes (POs):

SI. No.	Program Outcomes (POs)
1.	Acquiring and retrieve sound knowledge on fundamental principles and their applications in the area of Pharmaceutical Sciences.
2.	Understanding and communicate the value of pharmacist's professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
3,	Developing ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies, Hospital and Community Pharmacy Services.
4.	Developing written and oral communication skills.
5.	Developing creativity to solve need based problems in pharmaceutical Industry as well as in healthcare systems for raising quality use of medicine.
6.	Developing professional ethics, entrepreneurship, leadership and team spirit.

Sl. No.	Program Outcomes (PSOs)
1.	Understanding the basic concepts of homeostasis, disease etiology and therapeutic management with their principles and applications.
2.	Understanding the various concepts of development of drug and pharmaceuticals
3.	Describing various requirements and methodology used for manufacturing and quality control of various pharmaceutical and cosmetic products.
4.	Demonstrating use of various instruments and equipment with their standard operating procedures (SOPs) for the analysis of drugs and pharmaceuticals.
5.	Demonstrating the ability to compound extemporaneous and commercially available dosage forms, dispense, and administer medications in a variety of healthcare settings.
6.	Applying standards, guidelines, best practices, and established processes related to safe and effective medication use.
7	Conducting various pharmaceutical research studies such as identify and report drug related problems, ADRs, drug-drug interactions, drug toxicities, DUR etc. during pharmacy practice in clinics/hospitals.
8.	Developing and providing an evidence-based approach to care that considers the cost, care, access, and satisfaction needs of a targeted patient population.
9.	Developing research instinct in the area of community, hospital and clinical pharmacy.

H. Phan Chamecondies

#### PROGRAM OUTCOMES

PO1: Pharmacy knowledge: acquire and applying the knowledge of pharmacy in research and relevant setting.

PO2: Problem solving: create solutions to the problems related to pharmacy using critical thinking and scientific skills.

PO3: Communication skills: Communicate effectively both in written and spoken form among professionals and community by giving seminars, journal club and other activities.

P()4: Modern tool usage: Utilize modern analytical techniques to develop innovative solutions to the actual problems in the field of pharmacy.

PO5: Individual and teamwork: Function effectively as a member in diverse teams with the capability to be leader in multidisciplinary settings.

PO6: Life-long learning: recognise the need for and to engage in, life-long learning, professional development and practical training.

PO7: Planning skills: demonstrate effective planning abilities by developing valid hypotheses, designing experiments, gathering relevant data using current technology, and interpreting quantitative and qualitative data within deadlines.

POS: Environment and sustainability: use the knowledge of best practices and professional solutions in societal and environmental contexts for sustainable development.

PO9: Ethics: Apply ethical principles and commit professionally according to the norms of pharmacy ethics.

M. Pharmacondics)

#### PROGRAM SPECIFIC OUTCOMES: M. PHARM (PHARMACEUTICS)

After completion of the course the students will be

PSO-1: Understanding the novel concepts of formulation design and development through different approaches like QbD, Response surface methodology, etc, pre-formulation elements, pharmacokinetic parameters, criteria for selection of polymers/stabilizers and selection of drugs to formulate their stable pharmaceutical dosage forms/cosmeceuticals with its standardization process.

PSO-2: Understanding industrial management with GMP considerations, pilot plant scale-up techniques, stability testing, and packaging of pharmaceutical dosage forms.

PSO-3: Understanding regulatory affairs pertaining to manufacturing, distribution and sale of drug and pharmaceuticals.

PSO-4: Evaluating drug and pharmaceuticals/cosmeccuticals in its pure as well as dosage forms using modern analytical instrumentation techniques to assure its safety and efficacy.

PSO-5: Applying Biopharmaceuties concept with computational modelling /approaches, preclinical & clinical development approaches, Artificial Intelligence and Robotics in design and development of conventional as well as novel pharmaceutical dosage forms.

PSO-6: Creating solution to the therapeutic requirements emerging out of new disease outbreak or community health problems arising out of practicing existing medications.

Annexue-3

# (Pharmaeology)

#### PROGRAM OUTCOMES

POT: Pharmacy knowledge: Acquire and applying the knowledge of pharmacy in research and relevant setting.

PO2: Problem solving: Create solutions to the problems related to pharmacy using critical thinking and scientific skills.

PO3: Communication skills: Communicate effectively both in written and spoken form among professionals and community by giving seminars, journal club and other activities.

PO4: Modern tool usage: Utilize modern analytical techniques to develop innovative solutions to the actual problems in the field of pharmacy.

POS: Individual and teamwork: Function effectively as a member in diverse teams with the capability to be leader in multidisciplinary settings.

PO6: Life-long learning: Recognise the need for and to engage in, life-long learning, professional development and practical training.

Planning skills: Demonstrate effective planning abilities by developing valid hypotheses, designing experiments, gathering relevant data using current technology, and interpreting quantitative and qualitative data within deadlines.

POS: Environment and sustainability: Use the knowledge of best practices and professional solutions in societal and environmental contexts for sustainable development.

PO9: Ethics: Apply ethical principles and commit professionally according to the norms of pharmacy ethics.

4. Plany Plannacology Anneaue - 3

#### PROGRAM SPECIFIC OUTCOMES: M. PHARM (PHARMACOLOGY)

After completion of the course the students will be

- PSO-1: Understanding the application of pharmacological information of Active Pharmacontical Ingredient (API) that is used for diagnosis, prevention and treatment of a discuse condition.
- PSO-2: Illustrating pharmacodynamic and pharmacokinetic investigation to evaluate the efficacy and safety of drugs in animal models.
- PSO-3: Demonstrating the mechanism of action of the drug in preclinical and clinical resourcia.
- PSO-4: Practicing and learning animal handling of different species along with their breeding and maintenance as per CPCSEA/International guidelines.
- PSO-5: Identifying the in vitro, in vivo and other animal alternative models for screening of drug substances.
- PSO-6: Developing the core concept of establishing the efficacy and safety profile of a drug during research.

Mr. Shenn (Sharm. Analysis)

#### PROGRAM OUTCOMES

PO1: Pharmacy knowledge: acquire and applying the knowledge of pharmacy in research and relevant setting.

PO2: Problem solving: create solutions to the problems related to pharmacy using critical thinking and scientific skills.

PO3: Communication skills: Communicate effectively both in written and spoken form among professionals and community by giving seminars, journal club and other activities.

PO4: Modern tool usage: Utilize modern analytical techniques to develop innovative solutions to the actual problems in the field of pharmacy.

PO5: Individual and teamwork: Function effectively as a member in diverse teams with the capability to be leader in multidisciplinary settings.

PO6: Life-long learning: recognise the need for and to engage in, life-long learning, professional development and practical training.

PO7: Planning skills: demonstrate effective planning abilities by developing valid hypotheses, designing experiments, gathering relevant data using current technology, and interpreting quantitative and qualitative data within deadlines.

POS: Environment and sustainability: use the knowledge of best practices and professional solutions in societal and environmental contexts for sustainable development.

PO9: Ethics: Applying ethical principles and commit professionally according to the norms of pharmacy ethics.

H. Pharm. (Tham. Anelysis)

#### PROGRAM SPECIFIC OUTCOMES: M. PHARM (PHARMACEUTICAL ANALYSIS)

After completion of the course the students will be

PSO-1: Understanding various hyphenated instrumental techniques for ittentification, characterization and quantification of drugs.

PSO-2: Understanding on drug bioavailability, pharmacodynamics, cell culture techniques and ensure the efficacy and safety use of herbal medicine according to AYUSH guidelines.

PSO-3: Understanding the calibration of analytical instruments, validation methodologies and their applications in industry.

PSO-4: Evaluating the assay methods of drugs by spectroscopical and chromatographical techniques and preservatives in food and food products.

PSO-5: Applying to detect the impurities in pharmaceutical formulations and development of protocol for stability testing of products.

PSO-6: Building a talent pool by involving students in research and motivating them to publish their findings.

PSO-7: Creating new methods for the quantification of API, Impurities and Pharmaceutical Formulations.

M. Phare. Pharmacopussy
Amoune - 3

#### PROGRAM OUTCOMES

PO1: Pharmacy knowledge: Acquire and applying the knowledge of pharmacy in research and relevant setting.

PO2: Problem solving: Create solutions to the problems related to pharmacy using critical thinking and scientific skills.

PO3: Communication skills: Communicate effectively both in written and spoken form among professionals and community by giving seminars, journal club and other activities.

PO4: Modern fool usage: Utilize modern analytical techniques to develop innovative solutions to the actual problems in the field of pharmacy.

PO5: Individual and teamwork: Function effectively as a member in diverse teams with the capability to be leader in multidisciplinary settings.

PO6: Life-long learning: Recognise the need for and to engage in, life-long learning, professional development and practical training.

PO7: Planning skills: Demonstrate effective planning abilities by developing valid hypotheses, designing experiments, gathering relevant data using current technology, and interpreting quantitative and qualitative data within deadlines.

POS: Environment and sustainability: Use the knowledge of best practices and professional solutions in societal and environmental contexts for sustainable development.

PO9: Ethics: Apply ethical principles and commit professionally according to the norms of pharmacy ethics.

(Managusy) Annexue-3

#### PROGRAM SPECIFIC OUTCOMES: M. PHARM (PHARMACOGNOSY)

After completion of the course the students will be

PSO1. understanding the advancement in natural product research, medicinal plant biotechnology, herbal cosmetics, Indian system of medicine, pharmacognosy and phytochemistry.

PSO2: demonstrating the practical skills involved in pharmacognosy, analytical techniques related to plant biotechnology, standardization of herbs & herbal formulations.

PSO3: solving the problems related to natural products and traditional system of medicine by using critical thinking and scientific skills.

PSO4: demonstrating the leadership quality and teamwork with effective research communication and community pharmacy.

PSO5: appraising the current and advance scientific research in pharmacognosy & phytochemistry through literature and updates from various sources.

09/05/24 5-1



# TEERTHANKAR MAHAVEER COLLEGE OF PHARMACY TEERTHANKAR MAHAVEER UNIVERSITY, MORADABAD B.PHARM. VI SEM., III YEAR (III-CT) HERBAL DRUG TECHNOLOGY [BPHT603]

Session: JAN.'24- JUN.'24 (May'24)

Time: 1.5 Hours

M.M.:30

NOTE: This question paper has 3 sections (1-3).

Q.no	Questions	Marks	CO	BL	PC
	Multiple choice questions: (Attempt all)	10x 01 marks = 10	B		
	Iis an exclusive right granted for an invention, which is a	marks	4	Ll,	2,3
	product or a process that provides, in general, a new way of doing	- Fisher		2	7
	something, or offers a new technical solution to a problem:			L1,	
	(a) Patent (b) IPR (c) Innovation (d) Invention		16	2	2,
	IIis the exclusive right/protection provided to the creator or		4		7
	authors of original works of authorship:		18		2,
	(a) Trademark (b) Copyright (c) Patent (d) Geographical Indication			Li.	7
	III. The stability testing guidelines are not applicable to:		2	2	2,
	(a) Finished herbal products (b) API (c) Radiopharmaceuticals (d) Herbal drug				7
	IV. DTAB is:		4		2,
	(a) Drug Technical Admission Bureau (b) Drug Technology And Bureau			LI.	7
	(c) Drug Technical Academic Bureau (d) Drug Technical Advisory Board		5	2	2,
	V. WHO stands for:		4	L1,	7
	(a) World Health Organization (b) World Heavy Organization		-	2	
	(c) World Heavy metal and Ores (d) Worse Health Organization			L1,	2,
	VI. GMP requirements for manufacturing of ayurvedic drugs are mentioned		4	2	-
			7		1
	in Drug and Cosmetics Act 1940 under,		73	LI,	2,
	(a) Sch G (b) Sch T (c) Sch P (d) All of them			2	4,
	VII. ASU DCC advises the Central Government, State Govt. and ASU		4	LI,	2,
	DTAB, it stands for ASU			2	6,

(a) Drug Controller and Competencies (b) District Core Committee	V		L1,	2,3
(c) Drug Consultative Committee (d) Drug Controller Committee			2,4	7
VIII. The manufacturing plant should have adequate space for the following:		4	L1,	
(a) Manufacturing process area (b) Quality control section			2	2,3
(c) Rejected good/ drug store (d) All of them				6,3
IX. Azadirachtin is the chief constituent of:		4	1	
(a) Neem (b) Aloe (c) Turmeric (d) Acacia		153		
X. The stability parameter includes, except:		2		1
(a) Room temperature (b) Dose (c) Light (d) Humidity	100			Р
Short answer questions (Attempt any two):	2x 5			
A. Write a short note on WHO guidelines for the assessment of herbal drugs.	marks = 10	2	L1,2	2,3
B. Define Farmers right, Breeder's right, Bioprospecting and Biopiracy.	marks	4	L1,2	2,3
C. Write a note on stability testing of herbal drugs?		4	L1,4	
Long answer questions (Attempt any one):	1x 10			Г
P. What are the present scope and future prospects of Herbal Drug Industries	marks = 10	4	L1,2	2,3
in India?	marks		1.2,3	2,3
Q. Classify different types of IPR. Give definition of Patent and write		4	- 1	
patenting aspects of traditional knowledge.				

Course Out	comes (CO*s)
ER20-15T.1	Understanding raw material as source of herbal drugs from cultivation to herbal drug product.
ER20-15T.2	Explaining the WHO and ICH guidelines for evaluation of herbal drugs.
ER20-15T.3	Recognizing the herbal cosmetics, natural sweeteners, nutraceuticals.
ER20-15T.4	Illustrating patenting of herbal formulations.

Blooms Taxonomy Learning Level (BL)					
L1: Remember	L2: Understand	L3; Apply	L4: Analyze	L5: Evaluate	L6: Create

PR	OGRAM OUTCOMES (PO's)		LIMITAL IN ALLE		
1.	Sound Knowledge of fundamentals in PST	4.	Analytical and critical thinking	7.	Professional ethics, entrepreneurship,
2.	Professional role in society	5.	Writing and oral communication skills		leadership and team spirit
3.	Environmental, economic and societal impact	6.	Problem solving ability		

Annexue - 4



# TEERTHANKAR MAHAVEER COLLEGE OF PHARMACY TEERTHANKAR MAHAVEER UNIVERSITY, MORADABAD B.PHARM. III YEAR EXTERNAL PRACTICAL EXAM HERBAL DRUG TECHNOLOGY [BPHP653]

Session: JAN.'24- JUN.'24 (Jun'24)

Time: 3 Hours M.M.:35

NOTE: This question paper has 4 sections (1-4). Attempt All.

Q.no	Questions	Marks	CO	BL	PO
1.	Synopsis	05x 1 marks= 05 marks	2,3	L1,2	1
2.	A. Prepare, evaluate and submit 10g of herbal Cream.     B. Prepare, evaluate and submit 10ml of herbal lotion.	1x15 marks= 15 marks	2,3	L4,5	1,4,6
3.	Minor Experiment  Identify the given sample by phytochemical test.	1x10 marks= 10 marks	2,3	L1,4	1,4,6
4.	Viva voce	1x 5 marks=5 marks	1,2,3	L1,2	1,3,6

Co	ourse Outcomes (CO's)
L	Demonstrating toxicity studies of herbal drugs on animal models.
2	Analyzing herbal formulations to comply pharmacopoeial standard.
3	Formulating different herbal solid, semisolid and liquid dosage forms.

В	looms Taxono	my Learning Lev	el (BI	.)							
L	l: Remember	L2: Understand	L3: /	Apply	L4: Analyze	L5	: Evaluate	L6: Create			
PR	OGRAM OU	COMES (PO's)					100				
1.	Sound Knowledge of fundamentals in PST		4.	Analyt	ical and critical	7.	Professional ethics, entrepreneurship,				
2.			5.	B 1 - 2 - 1 1 1 1 1 1 7 2 8	g and oral unication skills		leadership and team spiri				
3.	Environmen societal impo	tal, economic and act	6.	Proble	m solving						

Internal Examiner Name & Sign.

External Examiner Name & Sign.

#### TEERTHANKAR MAHAVEER COLLEGE OF PHARMACY TEERTHANKAR MAHAVEER UNIVERSITY, MORADABAD B.PHARM. III YEAR EXTERNAL PRACTICAL EXAM HERBAL DRUG TECHNOLOGY [BPHP653]

#### SYNOPSIS 1. Borntrager's test is used for identification of : (A) Glycosides (B) Alkaloids (C) Resins (D) Tannins 2. An example of emulsifying agent: (B) Tragacanth (C) Glyceryl mono stearate (D) All of them (A) Starch 3. Dragendorrf's test is used for identification of: (C) Alkaloids (D) Tannins (A) Glycosides (B) Resins 4. Alcohol containing ayurvedic preparations ADABAST (A) Asava (B) Arishta (C) none (D) Both 5. .....is used as herbal hair colorants (A) Lawsonia alba (B) Gleyrrhiza glabra (C) Gingko (D) Acacia concinna

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# TEERTHANKER MAHAVEER UNIVERSITY, FORADABAD COLLEGE OF PHARMACY COLLEGE ADVISORY BOARD

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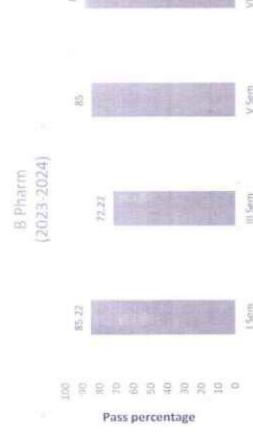
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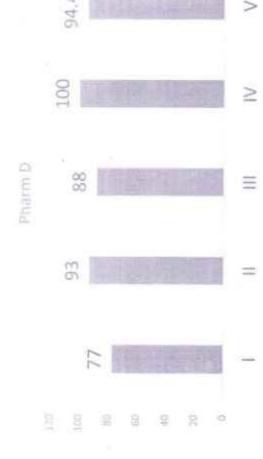
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Total publications SINCE August 2020= 246



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2023-24 No more new admissions as all seats are full 2021-22 2022-23 67 2018-19 2019-20 2020-21 PhD Enrolled

Total PhD enrolled since session 2020-21=107
Total PhD awarded= 04 (2022-23)
PhD awarded since 2018-2021= 00



School and Internship (Annexure). The BoS is of the view that, in practice School, student or group of students should deliver educational sessions to various Schools in Teerthanker Mahaveer University. Educational sessions may be based on diverse topics in Pharmacy Practice, Pharmacovigilance, Community Pharmacy, Hospital Pharmacy, Chemist Shop etc. For this purpose, timetable should be adjusted in such a way to accommodate such activities. Recommendations for There is no need to modify the PCI regulates Syllabus Upgradation Syllabus. Changes approved in the following Pharmacy Programs Pharm D: The BoS is of the opinion that there is no need to include Open Elective Course (OEC) that will simultaneously run with the internship of Pharm D sixth year students. So, the BoS recommended the removal of following OECs from Pharm D sixth year curriculum: 1. First Aid (PAR-501)- 3 credits 2. Emergency Care (PAR-502) - 3 credits D Pharm: i. Minimum marks for passing the examination -A student shall not be declared to have passed Diploma in Pharmacy examination unless he/she secures at least 40% marks in each of the subjects separately in the theory as well as the practical examinations, including sessional marks. The candidates securing 60% marks or above in aggregate in all subjects shall be declared to have passed in first class. The candidates securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in that subject or those subjects. The grant of first class and distinction shall be subject to the condition





## Teerthanker Mahaveer College of Pharmacy

Teerthanker Mahaveer University

All Since 20 Citations 673 671. h-index 12 12 i10-index 16 16

Pharmaceutics Pharmaceutical Chemistry \* Pharmacology Pharmacognosy

TITLE	CITED BY	YEAR
Cutting-edge Approach of Carbon Nanostructures: Targeted Drug Delivery to Central Nervous System MG Venishaa S., P Kumar, M Bhowmick, P Bhowmick, S Ashique, Central Nervous System Agents in Medicinal Chemistry	0	2024
Garbon Nanotubes: A Targeted Drug Delivery against Cancer Cell P Kumar, SN Pandey, F Ahmad, A Verma, H Sharma, S Ashique, Current Nanoscience 20 (6), 769-780	2	2024
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N John: A Choudhary, U Rawat, M Vengat Current Drug Safety 19 (4), 474-477		
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Variability in plumbagin content and identification of elite chemotypes among the germplasms of Plumbago zeylanica Linn, collected from different locations of Central India PK Shukla, U Shankar, S Srivastava, A Verma JPC-Journal of Planar Chromatography	g	2024
Quality by Design-based development and in-vitro evaluation of dual release tablet of Etoricoxib & Thicholchicoside: a novel chronotherapeutic approach for arthritis pain  A Sharma, S Singh, G Saini, S Sharma, B Singh, D Choudhary Annales Pharmaceutiques Françaises		2024
Review Article A Review on Mpox: Diagnosis, Prevention and Treatments H Sharma, SJ Tyagi, P Varshney, N Pathak, R Pathak Coronaviruses		2024
Emerging Anti-Inflammatory Attributes of Curcumin: A Novel Paradigm and Ameliorative Attributes for the Treatment of Osteoarthritis P Bajpai, P Chandra Current Rheumatology Reviews		2024



#### TMU Principal COLLEGE OF PHARMACY <principal.pharmacy@tmu.ac.in>

#### BoS notification and Invitation

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#### TMU Principal COLLEGE OF PHARMACY <principal.pharmacy@tmu.ac.in>

Thu, Jul 11, 2024 at 10:18

To: Piyush Mittal Fiyush Mittal Fiyush Mittal <associatedean.rd@tmu.ac.in>, "TMU Faculty DR. HHUPENDRA SINGH" <a href="http://doi.org/10.1016/j.com/">http://doi.org/10.1016/j.com/</a>, Dr Piyush Mittal <associatedean.rd@tmu.ac.in>, "TMU Faculty GEETANJALI SAINI <a href="http://doi.org/">http://doi.org/</a>, TMU Faculty PUSHPENDRA KUMAR SHUKLA Fushpendra.pharmacy@tmu.ac.in>, http://doi.org/</a>, Vaibhavr.pharmacy@tmu.ac.in, Mayur TMU Faculty <a href="http://doi.org/">http://doi.org/</a>, "Prof. Phool Chandra" for Pharmacy@tmu.ac.in>, Prashant TMU Faculty <a href="http://doi.org/">http://doi.org/</a>, Ashish TMU Faculty <a href="http://doi.org/">shishs.pharmacy@tmu.ac.in>, Raghvendra Mishra <a href="http://doi.org/">http://doi.org/</a>, Rajesh TMU Faculty <a href="http://doi.org/">rajeshs.pharmacy@tmu.ac.in>, "TMU Faculty Dr. Prithpal Singh Matreja" <a href="http://doi.org/">http://doi.org/</a>, Rajesh TMU Faculty <a href="http://doi.org/">rajeshs.pharmacy@tmu.ac.in>, "TMU Faculty Dr. Prithpal Singh Matreja" <a href="http://doi.org/">http://doi.org/</a>, Rajesh TMU Faculty <a href="http://doi.org/">rajeshs.pharmacy@tmu.ac.in>, "TMU Faculty Dr. Prithpal Singh Matreja" <a href="http://doi.org/">http://doi.org/</a>, Rajesh TMU Faculty <a href="http://doi.org/">rajeshs.pharmacy@tmu.ac.in>, "TMU Faculty Dr. Prithpal Singh Matreja" <a href="http://doi.org/">http://doi.org/</a>, Rajesh TMU Faculty <a href="http://doi.org/">rajeshs.pharmacy@tmu.ac.in>, "TMU Faculty Dr. Prithpal Singh Matreja" <a href="http://doi.org/">http://doi.org/</a>

#### Dear BoS Members

I am writing to extend a formal invitation to you to attend the forthcoming Board of Studies (BoS) meeting of the Faculty of Pharmacy at Teerthanker Mahaveer University. The meeting is scheduled to take place tomorrow July 12, 2024, at Teerthanker Mahaveer College of Pharmacy. The venue is the Principal's office and the time is 10 AM onwards.

The agenda of the meeting is as follows:

- Review of Syllabus: An in-depth review of the syllabus of various pharmacy programs concerning the National Education Policy (NEP) and Outcome-Based Education (OBE).
- Finalization of External Examiners: Selection and finalization of external examiners for the practical examinations of various courses in the pharmacy programs.
- 3. Result Analysis: Comprehensive analysis of the results of various pharmacy programs to assess academic performance and outcomes.
- Expert Advice on Practice School/Internship: Seeking expert guidance on the practice school/internship programs for students enrolled in our pharmacy programs.
- Recommendations for Syllabus Upgradation: Advice on ways to upgrade and strengthen the Pharmacy Council of India (PGI) regulated syllabus of various pharmacy programs, ensuring compliance with PCI guidelines and avoiding additional burdens on the students.
- Any other matter deemed suitable by BoS.

Your expertise and insights would be invaluable to our discussions and decision-making processes. Please confirm your availability at your earliest convenience. We are looking forward to your positive response and hope to welcome you to Teerthanker Mahaveer University soon. Thank you for considering our invitation.

Best regards

Principal.

F M College of Phonescy
Teerthanker Makkyeer University
Moradabad, Utter Printesh



#### TMU Principal COLLEGE OF PHARMACY <principal.pharmacy@tmu.ac.in> ==

#### Invitation to attend Board of Studies meeting

2 messages

TMU Principal COLLEGE OF PHARMACY <principal.pharmacy@tmu.ac.in>

Tue, Jun 25, 2024 at 9:48

la larhanja\_2000@yahoo.com, harishdureja@gmail.com, "TMU Faculty Dr. Prithpal Singh Matreja" <a href="drprithpal.medical@lmu.ac.in">drprithpal.medical@lmu.ac.in</a>

Cc: Dean TMU <dean@tmu.ac.in>, registrar <registrar@tmu.ac.in>, \*TMU Faculty DR. MUKESH SINGH SIKARWAR\* <mukesh.pharmacy@tmu.ac.in>

Dear Sir

I am writing to extend a formal invitation to you to attend the forthcoming Board of Studies (BoS) meeting of the Faculty of Pharmacy at Teerthanker Mahaveer University. The meeting is scheduled to take place on a suitable date between July 1 and 10, 2024, at Teerthanker Mahaveer College of Pharmacy.

The agenda of the meeting is as follows:

- Review of Syllabus: An in-depth review of the syllabus of various pharmacy programs concerning the National Education Policy (NEP) and Outcome-Based Education (OBE).
- Finalization of External Examiners: Selection and finalization of external examiners for the practical examinations of various courses in the pharmacy programs.
- 3. Result Analysis: Comprehensive analysis of the results of various pharmacy programs to assess academic performance and outcomes.
- Expert Advice on Practice School/Internship: Seeking expert guidance on the practice school/internship programs for students enrolled in our pharmacy programs.
- Recommendations for Syllabus Upgradation: Advice on ways to upgrade and strengthen the
  Pharmacy Council of India (PCI) regulated syllabus of various pharmacy programs, ensuring compliance
  with PCI guidelines and avoiding additional burdens on the students.
- 6. Any other matter deemed suitable by BoS.

Your expertise and insights would be invaluable to our discussions and decision-making processes. Please confirm your availability for any date between July 1 and 10, 2024, at your earliest convenience, so that we can finalize the meeting schedule accordingly. We are looking forward to your positive response and hope to welcome you to Teerthanker Mahaveer University soon. Thank you for considering our invitation.

Best-regards

Principal

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Cc\_Dean TMU <dean@tmu.ac.in>, "TMU Faculty DR. MUKESH SINGH SIKARWAR" <mukesh.pharmacy@tmu.ac.in>, \*\*\*TMU Faculty Dr. Prithpal Singh Matreja" <drprithpal.medical@tmu.ac.in>, farhanja\_2000@yahoo.com, registrar \*\*\*Significant formula ac.in>

Dear Sir
Thunks for the invitation.
I will join the meeting and will confirm the date shortly.
With Regards

Prof. (Dr.) Harish Dureja M. PHARM., Ph.D. (Gold-Medalist)

Dean, Faculty of Pharmaceutical Sciences
Head, Department of Pharmaceutical Sciences
Director, Centre for IPR Studies
Director, Professional Consultancy Cell
Maharahi Dayanand University, Rohtak
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Visiting Professor

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TMU Principal COLLEGE OF PHARMACY <principal.pharmacy@tmu.ac.in>
To: fjahmad@jamiahamdard.ac.in

Tue, Jun 25, 2024 at 10:44 AM

Best regards

Principal,

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Tue, Jun 25, 2024 at 10:57 AM

This is to give my consent to attend the forthcoming Board of Studies (BoS) meeting of the Faculty of Pharmacy on 12th july 2024, at Teerthanker Mahaveer College of Pharmacy.

THE RESIDEN

Tue, Jun 25, 2024 at 11:03 AM Deun TMU <a href="mailto:sepicial-pharmacy@tmu.ac.in">deun TMU <a href="mailto:sepical-pharmacy@tmu.ac.in">deun ## Dear Sir/Madam

Kindly allow the BoS to be held on 12-07-2024. The delay is due to the busy schedule of external experts, Prof. Furtian Jalees (Jamia Hamdard) & Prof. Harish Dureja (Maharshi Dayanand University).