



NANDED PHARMACY COLLEGE, NANDED

2.6 STUDENT PERFORMANCE & LEARNING OUTCOMES

2.6.2: Attainment of POs and Cos are evaluated

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PROGRAM OUTCOME (PO) AND COURSE OUTCOME (CO) ATTAINMENT AND EVALUATION PROCESS

Outcome-based education (OBE) is an educational approach that focuses on defining and measuring desired learning outcomes. It shifts the emphasis from teaching inputs to student achievements and outcomes. OBE aims to ensure that students acquire the knowledge, skills, and competencies necessary for success in their chosen fields.

In outcome-based education, course outcomes refer to the specific learning objectives or goals that students are expected to achieve by the end of a particular course. These outcomes are carefully designed to align with the overall program outcomes and reflect the knowledge, skills, and attitudes that students should possess.

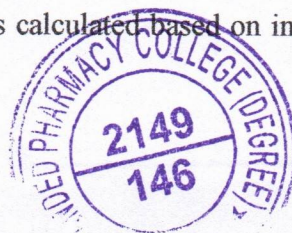
Implementation of Course outcome & Program Outcome

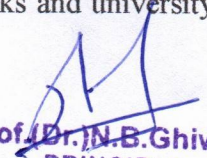
Shri Sharda Bhavan Education Society's, Nanded Pharmacy College has adopted Outcome-based education (OBE) model in AY 2021-2022.

To implement OBE, the college has defined course outcomes (COs) and program outcomes (POs) in accordance with the SRTM University course structure and NBA guidelines, respectively. COs are specific learning objectives designed for each course, aligning with the overall program outcomes. The COs are developed by subject teachers in consultation with senior faculty and the Head of the Department.

Similarly, POs are defined as per the NBA Guidelines and apply to all programs offered by the institute. The COs and POs are displayed on the college website, ensuring awareness among students, faculty, alumni, parents, and industry stakeholders. The mapping of POs with COs is done using a correlation level scale (3 indicating strong correlation, 2 indicating moderate correlation, and 1 indicating poor correlation).

To assess attainment of outcomes, different assessment tools such as internal sessional examination marks, continuous internal assessment marks, and end-semester examination marks are used by respective course instructors. The attainment score is composed of direct attainment (80% contribution) and indirect attainment (20% contribution). Direct attainment is calculated based on internal marks and university end-




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semester examination marks, with the contribution of each part explained in a provided table. Indirect attainment is calculated based on Course exit survey.

❖ EVALUATION OF ATTAINMENT OF COURSE OUTCOME

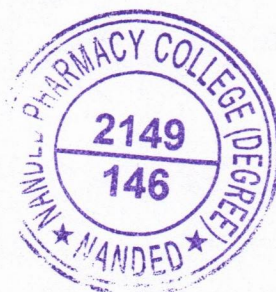
Attainment of Course Outcomes are evaluated as per the following table


Method	Tools for Assessment	Weightage	% Contribution
Direct (Internal + External)	Internal Sessional Examination Marks, Continuous Internal Assessment Marks	20%	80
	University End Semester Examination	80%	
Indirect	Course Exit Survey	20%	20

Attainment Criteria

Assessment Tools	Criteria	Level
Internal Assessment 1. Sessional (Theory & Practical) Marks 2. CIA	If more than 70% students score 50% and above marks	L3
	If more than 60-69 % students score 50% and above marks	L2
	If more than 50-59 % students score 50% and above marks	L1
	If less than 50 % students score 50% and above marks	L0
External Assessment 1. University End Semester Exam	If more than 70% students score 40% and above marks	L3
	If more than 60-69 % students score 40% and above marks	L2
	If more than 50-59 % students score 40% and above marks	L1
	If less than 50 % students score 40% and above marks	L0

Level	L3	L2	L1	L0
Score	03	02	01	0




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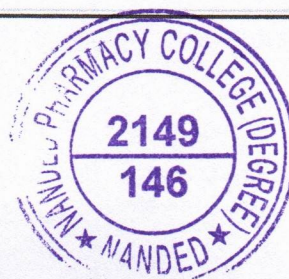
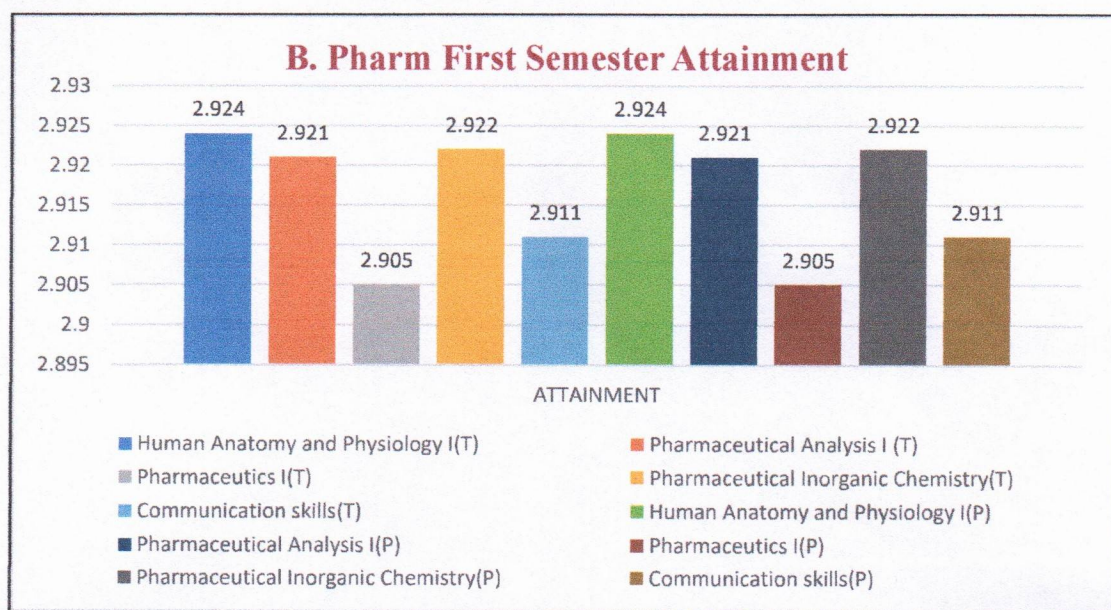
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ATTAINMENT OF COURSE OUTCOME

B. PHARM FIRST YEAR FIRST SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP101T	Human Anatomy and Physiology I(T)	3	2.4	2.618	0.524	2.924
BP102T	Pharmaceutical Analysis I (T)	3	2.4	2.605	0.521	2.921
BP103T	Pharmaceutics I(T)	3	2.4	2.526	0.505	2.905
BP104T	Pharmaceutical Inorganic Chemistry(T)	3	2.4	2.609	0.522	2.922
BP105T	Communication skills(T)	3	2.4	2.554	0.511	2.911
BP107P	Human Anatomy and Physiology I(P)	3	2.4	2.618	0.524	2.924
BP108P	Pharmaceutical Analysis I(P)	3	2.4	2.605	0.521	2.921
BP109P	Pharmaceutics I(P)	3	2.4	2.526	0.505	2.905
BP110P	Pharmaceutical Inorganic Chemistry(P)	3	2.4	2.609	0.522	2.922
BP111P	Communication skills(P)	3	2.4	2.554	0.511	2.911

*DA: Direct Attainment Score, IA: Indirect Attainment Score



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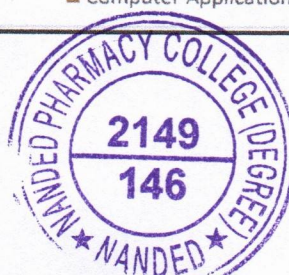
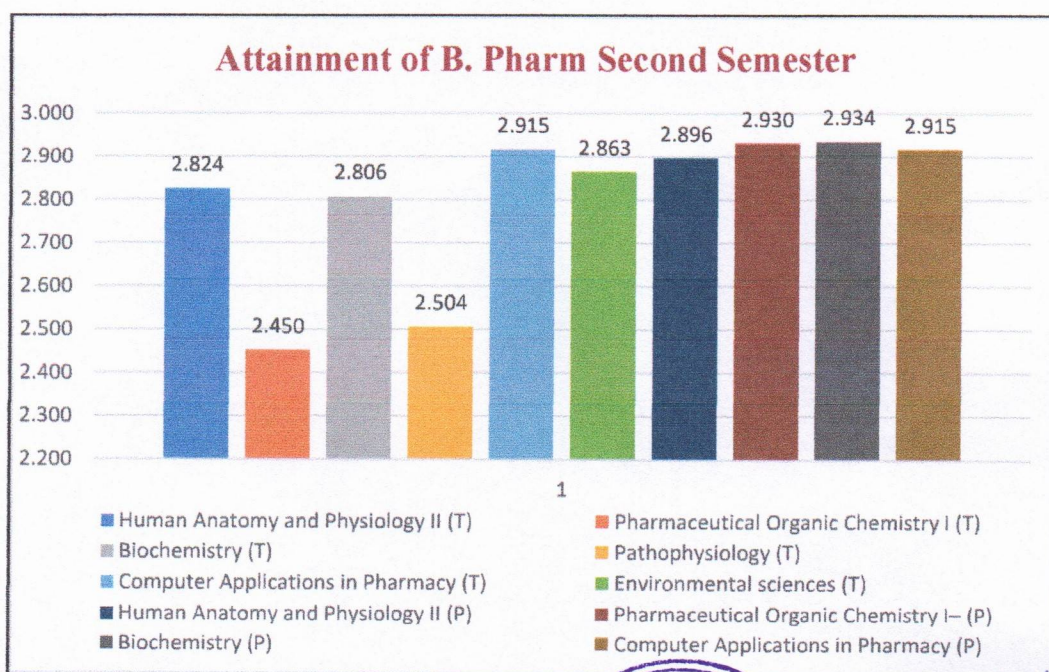
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ATTAINMENT OF COURSE OUTCOME

B. PHARM FIRST YEAR SECOND SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP201T	Human Anatomy and Physiology II (T)	2.91	2.328	2.478	0.496	2.824
BP202T	Pharmaceutical Organic Chemistry I (T)	2.4	1.92	2.648	0.530	2.450
BP203T	Biochemistry (T)	2.84	2.272	2.671	0.534	2.806
BP204T	Pathophysiology (T)	2.46	1.968	2.681	0.536	2.504
BP205T	Computer Applications in Pharmacy (T)	3	2.4	2.577	0.515	2.915
BP206T	Environmental sciences (T)	2.91	2.328	2.676	0.535	2.863
BP207P	Human Anatomy and Physiology II (P)	3	2.4	2.478	0.496	2.896
BP208P	Pharmaceutical Organic Chemistry I- (P)	3	2.4	2.648	0.530	2.930
BP209P	Biochemistry (P)	3	2.4	2.671	0.534	2.934
BP210P	Computer Applications in Pharmacy (P)	3	2.4	2.577	0.515	2.915



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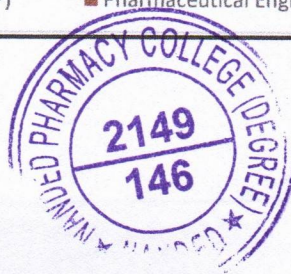
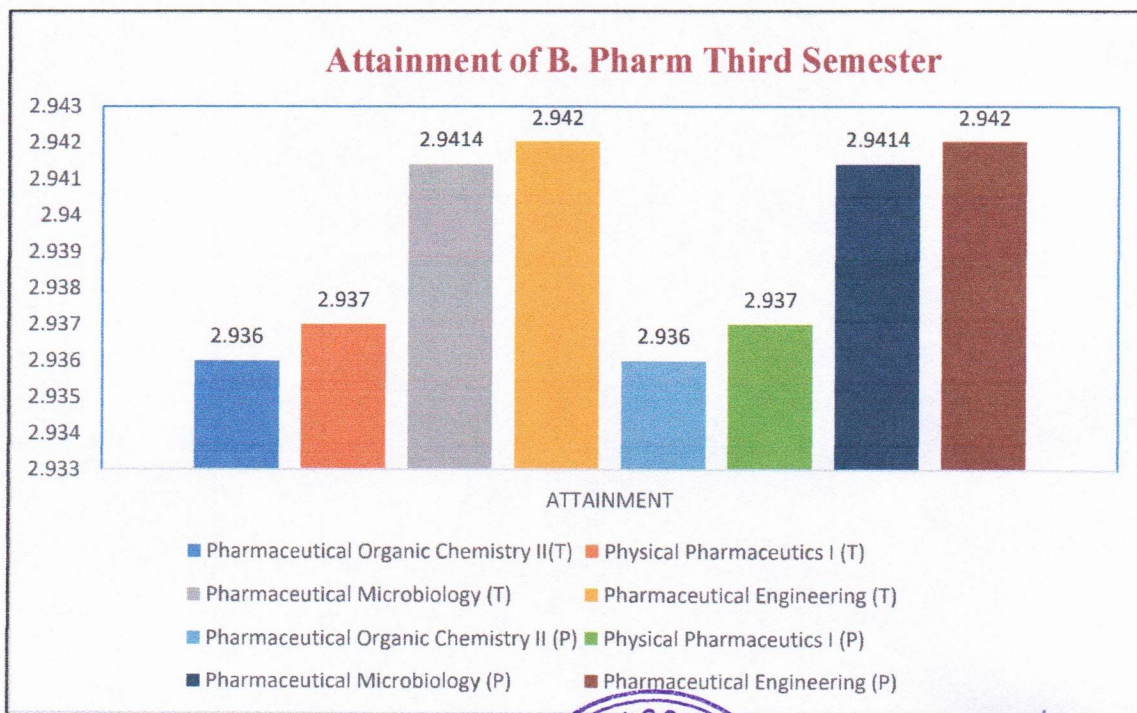
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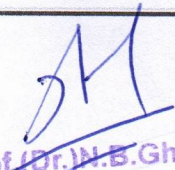
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B. PHARM SECOND YEAR THIRD SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP301T	Pharmaceutical Organic Chemistry II(T)	3	2.4	2.68	0.536	2.936
BP302T	Physical Pharmaceutics I (T)	3	2.4	2.685	0.537	2.937
BP303T	Pharmaceutical Microbiology (T)	3	2.4	2.707	0.5414	2.9414
BP304T	Pharmaceutical Engineering (T)	3	2.4	2.71	0.542	2.942
BP305P	Pharmaceutical Organic Chemistry II (P)	3	2.4	2.68	0.536	2.936
BP306P	Physical Pharmaceutics I (P)	3	2.4	2.685	0.537	2.937
BP307P	Pharmaceutical Microbiology (P)	3	2.4	2.707	0.5414	2.9414
BP308P	Pharmaceutical Engineering (P)	3	2.4	2.71	0.542	2.942

DA: Direct Attainment Score, IA: Indirect Attainment Score




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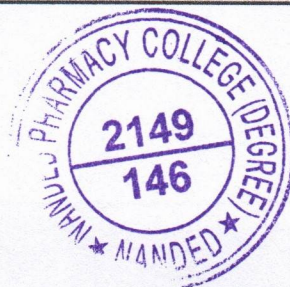
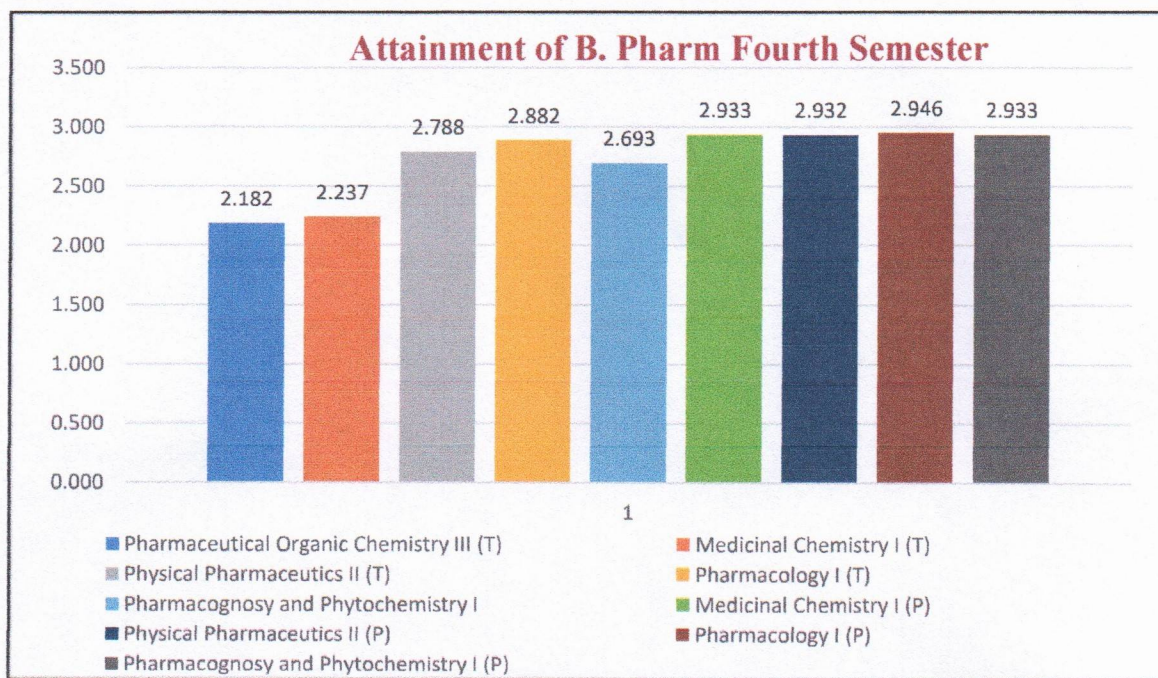
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ATTAINMENT OF COURSE OUTCOME

B. PHARM SECOND YEAR FOURTH SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP401T	Pharmaceutical Organic Chemistry III (T)	2.05	1.64	2.711	0.542	2.182
BP402T	Medicinal Chemistry I (T)	2.13	1.7	2.664	0.533	2.237
BP403T	Physical Pharmaceutics II (T)	2.82	2.26	2.66	0.532	2.788
BP404T	Pharmacology I (T)	2.92	2.34	2.731	0.546	2.882
BP405T	Pharmacognosy and Phytochemistry I	2.70	2.16	2.664	0.533	2.693
BP406P	Medicinal Chemistry I (P)	3	2.4	2.664	0.533	2.933
BP407P	Physical Pharmaceutics II (P)	3	2.4	2.66	0.532	2.932
BP408P	Pharmacology I (P)	3	2.4	2.731	0.546	2.946
BP409P	Pharmacognosy and Phytochemistry I (P)	3	2.4	2.664	0.533	2.933




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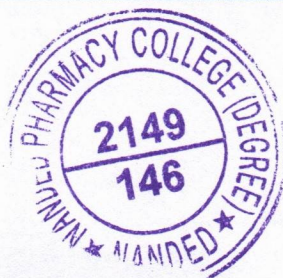
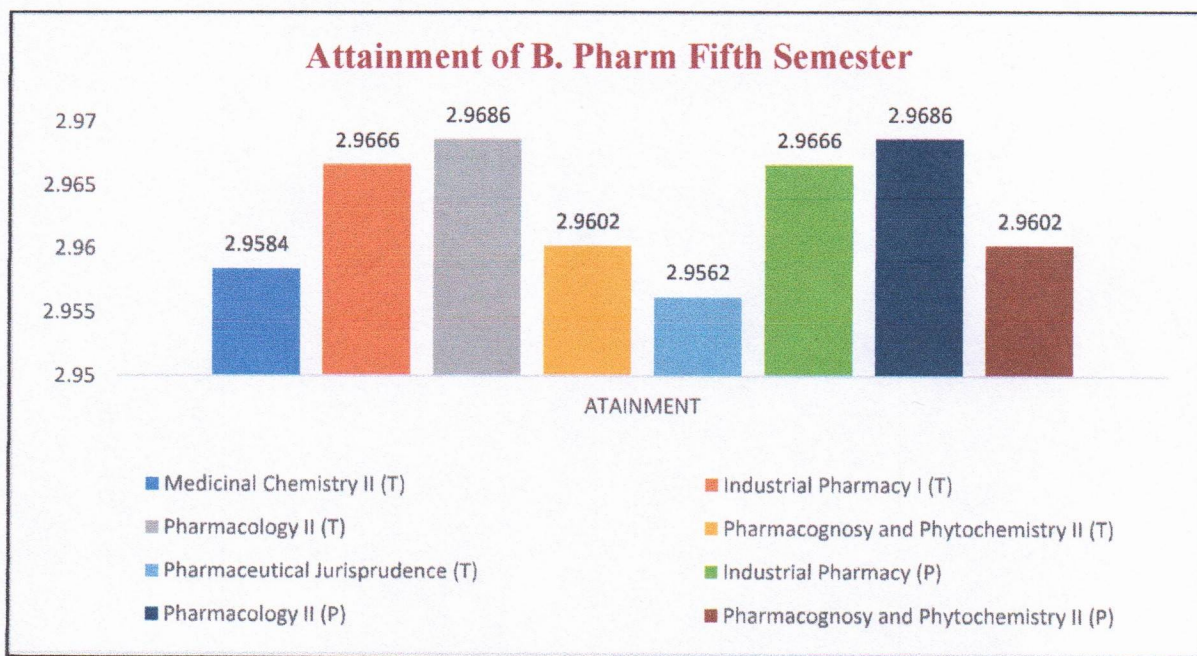
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B. PHARM THIRD YEAR FIFTH SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP501T	Medicinal Chemistry II (T)	3	2.4	2.792	0.5584	2.9584
BP502T	Industrial Pharmacy I (T)	3	2.4	2.833	0.5666	2.9666
BP503T	Pharmacology II (T)	3	2.4	2.843	0.5686	2.9686
BP504T	Pharmacognosy and Phytochemistry II (T)	3	2.4	2.801	0.5602	2.9602
BP505T	Pharmaceutical Jurisprudence (T)	3	2.4	2.781	0.5562	2.9562
BP506P	Industrial Pharmacy (P)	3	2.4	2.833	0.5666	2.9666
BP507P	Pharmacology II (P)	3	2.4	2.843	0.5686	2.9686
BP508P	Pharmacognosy and Phytochemistry II (P)	3	2.4	2.801	0.5602	2.9602

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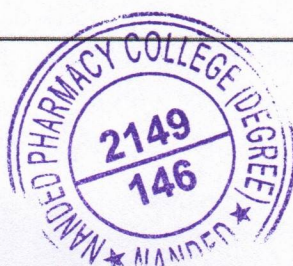
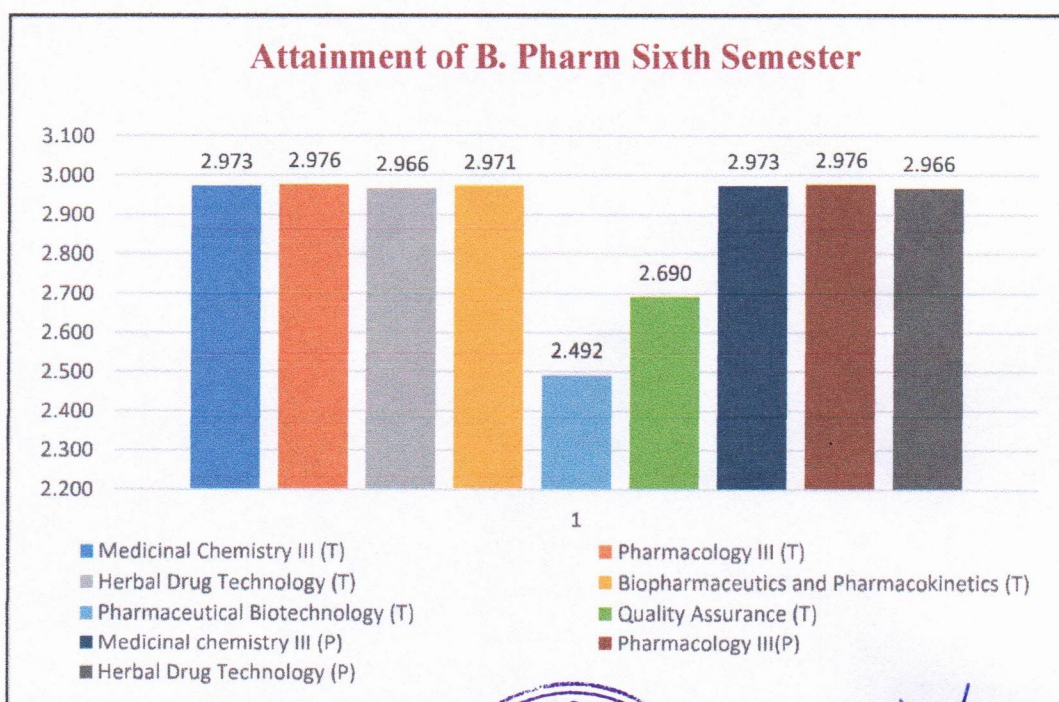
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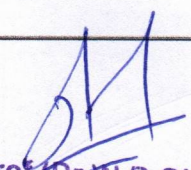
ATTAINMENT OF COURSE OUTCOME

B. PHARM THIRD YEAR SIXTH SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP601T	Medicinal Chemistry III (T)	3	2.4	2.863	0.573	2.973
BP602T	Pharmacology III (T)	3	2.4	2.88	0.576	2.976
BP603T	Herbal Drug Technology (T)	3	2.4	2.831	0.566	2.966
BP604T	Biopharmaceutics and Pharmacokinetics (T)	3	2.4	2.855	0.571	2.971
BP605T	Pharmaceutical Biotechnology (T)	2.4	1.92	2.858	0.572	2.492
BP606T	Quality Assurance (T)	2.64	2.11	2.892	0.578	2.690
BP607P	Medicinal chemistry III (P)	3	2.4	2.863	0.573	2.973
BP608P	Pharmacology III(P)	3	2.4	2.88	0.576	2.976
BP609P	Herbal Drug Technology (P)	3	2.4	2.831	0.566	2.966

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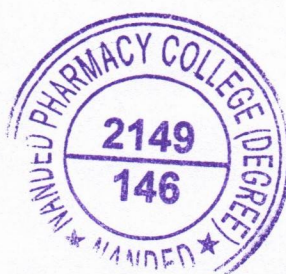
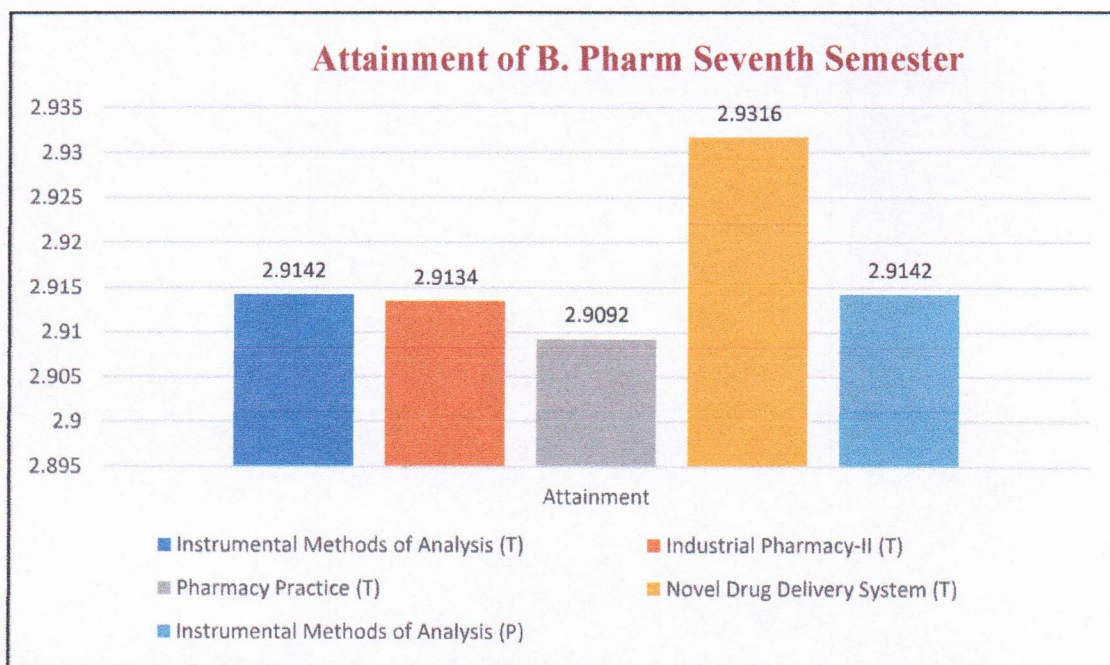
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ATTAINMENT OF COURSE OUTCOME

B. PHARM FINAL YEAR SEVENTH SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP701T	Instrumental Methods of Analysis (T)	3	2.4	2.673	0.5346	2.9142
BP702T	Industrial Pharmacy-II (T)	3	2.4	2.628	0.5256	2.9134
BP703T	Pharmacy Practice (T)	3	2.4	2.628	0.5256	2.9092
BP704T	Novel Drug Delivery System (T)	3	2.4	2.526	0.5052	2.9316
BP705P	Instrumental Methods of Analysis (P)	3	2.4	2.673	0.5346	2.9142

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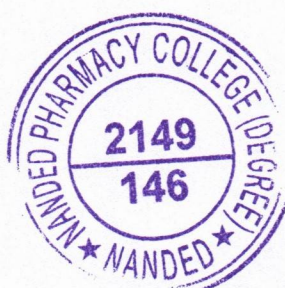
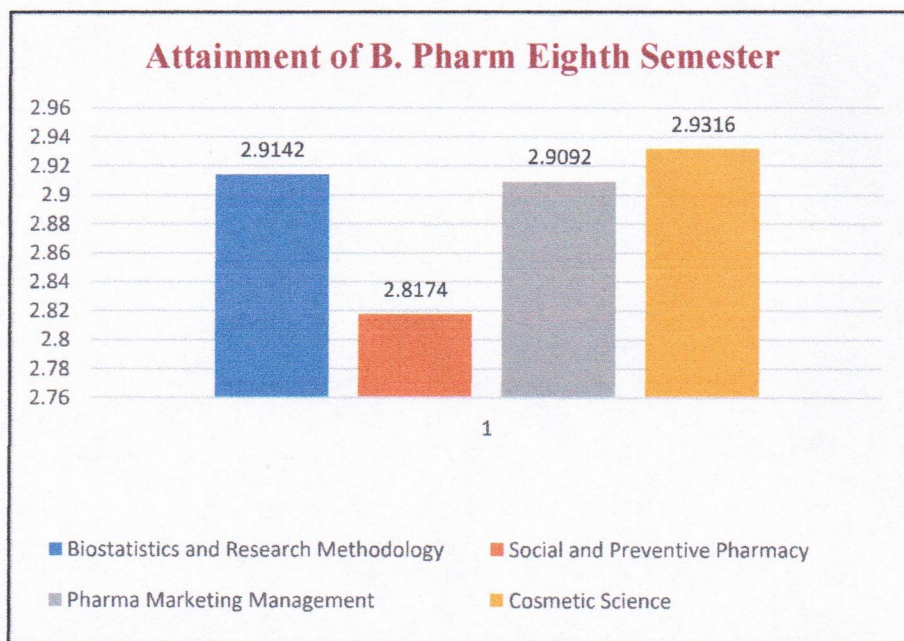
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B. PHARM FINAL YEAR EIGHTH SEMESTER

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
BP801T	Biostatistics and Research Methodology	3	2.4	2.571	0.5142	2.9142
BP802T	Social and Preventive Pharmacy	2.88	2.30	2.567	0.5134	2.8174
BP803ET	Pharma Marketing Management	3	2.4	2.546	0.5092	2.9092
BP809ET	Cosmetic Science	3	2.4	2.658	0.5316	2.9316

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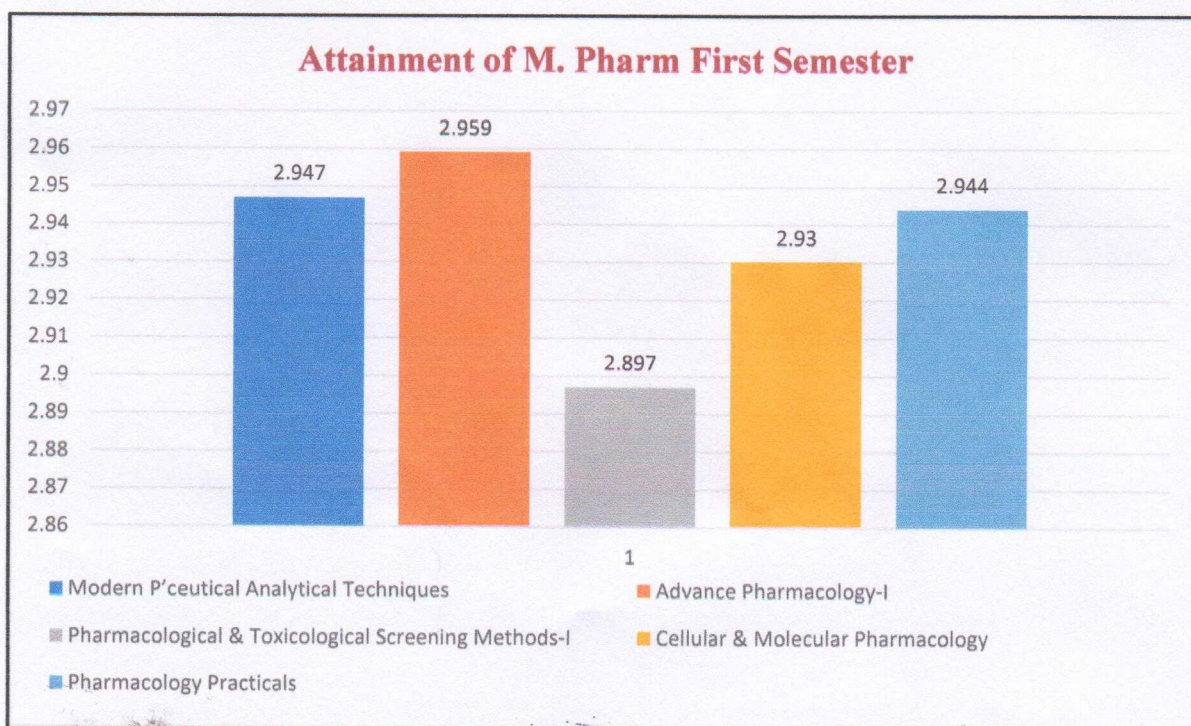
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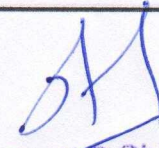
ATTAINMENT OF COURSE OUTCOME

M. PHARM FIRST YEAR FIRST SEMESTER AY 2021-22

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
MPL101T	Modern P'ceutical Analytical Techniques	3	2.4	2.736	0.547	2.947
MPL102T	Advance Pharmacology-I	3	2.4	2.796	0.559	2.959
MPL103T	Pharmacological & Toxicological Screening Methods-I	3	2.4	2.487	0.497	2.897
MPL104T	Cellular & Molecular Pharmacology	3	2.4	2.651	0.530	2.930
MPL105T	Pharmacology Practicals	3	2.4	2.719	0.544	2.944

DA: Direct Attainment Score, IA: Indirect Attainment Score




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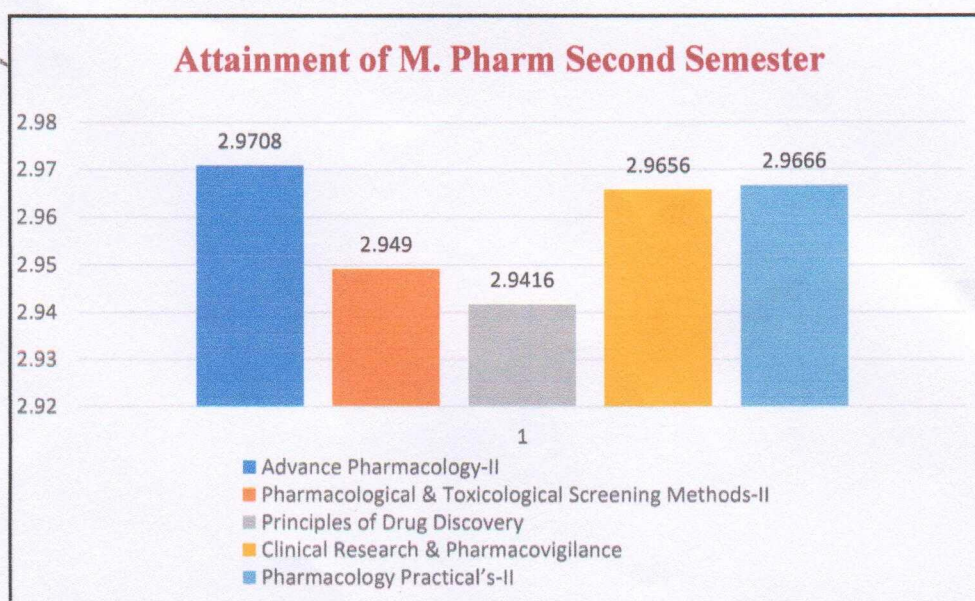
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ATTAINMENT OF COURSE OUTCOME

M. PHARM FIRST YEAR SECOND SEMESTER AY 2021-22

Course Code	Course Name	(DA)	80% of DA	(IA)	20% of IA	Total CO Attainment
MPL201T	Advance Pharmacology-II	3	2.4	2.854	0.5708	2.9708
MPL202T	Pharmacological & Toxicological Screening Methods-II	3	2.4	2.745	0.549	2.949
MPL203T	Principles of Drug Discovery	3	2.4	2.708	0.5416	2.9416
MPL204T	Clinical Research & Pharmacovigilance	3	2.4	2.828	0.5656	2.9656
MPL205T	Pharmacology Practical's-II	3	2.4	2.833	0.5666	2.9666




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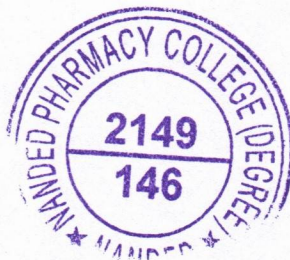
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ATTAINMENT OF PROGRAM OUTCOME

B. PHARM FINAL YEAR SEMESTER

Course Code	Course Name	(POA)
BP701T	Instrumental Methods of Analysis (T)	2.910
BP702T	Industrial Pharmacy-II (T)	2.926
BP703T	Pharmacy Practice (T)	3.110
BP704T	Novel Drug Delivery System (T)	3.214
BP705P	Instrumental Methods of Analysis (P)	2.910

Course Code	Course Name	(POA)
BP801T	Biostatistics and Research Methodology	2.916
BP802T	Social and Preventive Pharmacy	2.770
BP803ET	Pharma Marketing Management	2.913
BP809ET	Cosmetic Science	2.934




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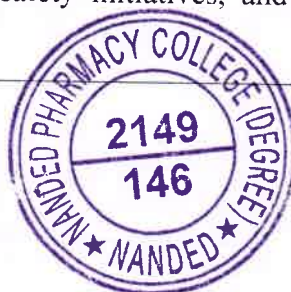
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Date:

PHARMACY PROGRAM OUTCOMES

(B. PHARM & M. PHARM)

Program Outcomes	Statement/Description
PO1	Pharmacy Knowledge: Understand the core and fundamental knowledge associated with the pharmacy profession, such as pharmaceutical sciences, biomedical sciences, Ethical and Professional Behaviour, administrative pharmacy sciences, and manufacturing practises.
PO2	Planning Abilities: Proper planning skills, including time management, professional activity management, resource management, delegation skills, and organisational skills, must be exhibited. Planning of implementation strategies, as well as set up tasks to accomplish deadlines.
PO3	Problem analysis: Students will be able to critically analyze and solve complex pharmaceutical problems using logical reasoning, scientific principles, and evidence-based approaches.
PO4	Design/development of solutions: Design solutions, system and processes for complex problems or that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO5	Modern tool usage: Students will be proficient in utilizing modern technologies, software applications, and information systems pertinent to pharmacy practice while being aware of their limitations.
PO6	Leadership skills: The program will equip students with leadership qualities, enabling them to effectively manage and lead interprofessional teams, contribute to medication safety initiatives, and drive innovative pharmacy practice.




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PO7	Professional Identity: Program will develop a strong professional identity, demonstrating ethical behaviour, integrity, and accountability in all aspects of pharmacy practice.
PO8	Pharmaceutical Ethics: Maintain personal morals and apply them in social and professional situations. Make moral decisions and accept responsibility for the consequences of those decisions. Maintain Patient confidentiality, informed consent together with responsible use of medications.
PO9	Communication: Possess excellent communication skills, enabling effective interaction with patients, healthcare professionals, stakeholders and with society at large to provide clear and concise medication counselling, drug information, and pharmaceutical care. Able to understand and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
PO10	The Pharmacist and society: Understand the role of the pharmacist as a healthcare professional and the impact of pharmacy practice on public health, community education, and patient advocacy.
PO11	Environment and sustainability: The program will foster an awareness in societal and environmental contexts of pharmacy practice, emphasizing the proper disposal of pharmaceutical waste, promoting green initiatives, and optimizing medication use to minimize environmental impact.
PO12	Life-long learning: Recognize the importance of continuous learning and professional development in the dynamic field of pharmacy. Possess the ability to adapt emerging pharmaceutical trends, technologies, evolving pharmacy regulations and research advancements by engaging in ongoing education and self-directed learning.




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PHARMACY PROGRAM SPECIFIC OUTCOMES

(B. PHARM & M. PHARM)

Program Specific Outcomes (PSO)	Statement/Description
PSO1	To train the students in various branches like Pharmaceutics, Pharmacology, Pharmaceutical Chemistry, Pharmacognosy and Pharmacy Practice in order to develop competent professionals, future leaders and responsible citizens.
PSO2	To impart various practical skills and training to the aspiring pharmacist to cater the industry and society in order to create employment opportunities.
PSO3	To develop students' entrepreneurial skills and encourage them to start commercial production of drugs and formulations, sales and marketing, packaging, retail, and wholesale businesses.
PSO4	To enable student to peruse for higher education and research in pharmaceutical and healthcare field.
PSO5	To develop the expertise right from the drug discovery up to its final administration to patient to alleviate suffering of humanity through the practice of pharmacy and to bring happiness to all.




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SAMPLE OF COURSE OUTCOMES



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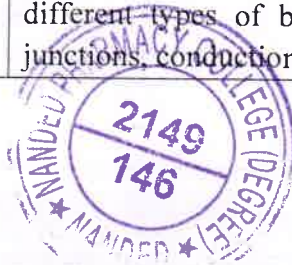
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Date:

COURSE OUTCOMES

PROGRAM: B. PHARMACY

B. PHARM FIRST YEAR-IST SEMESTER			
SUBJECT	CO NO	COURSE OUTCOME	LEVEL
Human Anatomy and Physiology I (Theory)	BP101TCO1	Knowledge of various homeostatic mechanisms and their imbalances, Body fluids, Systems.	L 1
	BP101TCO2	Understand the concepts of human body allowing verification of physiological processes through the experiments on living tissues, intact animal or normal human beings.	L 2
	BP101TCO3	Apply the skills to Appreciate coordinated working pattern of different organs of each system	L 3
	BP101TCO4	Illustrate the intracellular signalling pathway activation by extracellular signal molecule & functions of various nerves based on the information gained	L 4
	BP101TCO5	Evaluate the various tissues and organs of different systems of human body.	L 5
	BP101TCO6	Developing the models or charts to identify the different types of bones in human body, Muscles, junctions, conduction system in the human body	L 6
Human Anatomy and Physiology I (Practical)	BP107PCO1	Knowledge of determination of different parameters related to blood.	L 1
	BP107PCO2	Understand the concepts of human body allowing verification of physiological processes through the experiments on living tissues, intact animal or normal human beings.	L 2
	BP107PCO3	Identify the various tissues of different systems of human body.	L 3
	BP107PCO4	Illustrate the various experimental techniques related to physiology	L 4
	BP107PCO5	Evaluate the various tissues, bones and organs of different systems of human body.	L 5
	BP107PCO6	Developing the models or charts to identify the different types of bones in human body, Muscles, junctions, conduction system in the human body	L 6




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SAMPLE OF COURSE OUTCOMES



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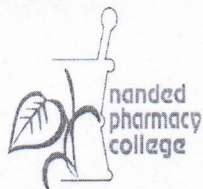
COURSE OUTCOMES

PROGRAM: M. PHARMACY (PHARMACOLOGY)

M. PHARM FIRST YEAR-I ST SEMESTER			
SUBJECT	CO NO	COURSE OUTCOME	LEVEL
Modern Pharmaceutical Analytical Techniques	MPL101T CO1	<i>Knowledge</i> of various modern analytical techniques (spectroscopy and chromatography)	L1
	MPL101T CO2	<i>Comprehend</i> the concepts pertaining to instrumentation, principle and working of analytical instruments	L2
	MPL101T CO3	<i>Apply</i> concept from sample preparation to result analysis of various modern analytical techniques	L3
	MPL101T CO4	<i>Analyse</i> the information obtained from different analytical techniques	L4
	MPL101T CO5	<i>Explain</i> different types of spectroscopy and chromatography techniques along with their working; in addition to its role in Pharmaceutical Industry	L5
	MPL101T CO6	<i>Create/ establish and summarise</i> the correlation between principle, working, instrumentation and applications in Pharmacy.	L6




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NANDED PHARMACY COLLEGE(DEGREE), NANDED
FIRST SESSIONAL THEORY EXAMINATION 2021-2022

Class: B. Pharm Final Year, VIIITH Sem

Sub Code: BP809ET

Sub: Cosmetic Science

(Thursday, 19-05-2022)

Time: 75 Minutes

Max. Marks: 30

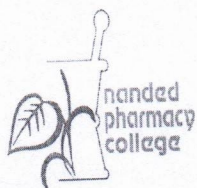
Instructions

1. Write answers to the point.
2. Draw Neat labelled diagram wherever is necessary.
3. Figures to the right indicating full marks

Question No	Question	Max Marks	Co linked
Q1	Solve the following	10	
a.	Define the term Cosmetics. Give Suitable examples of cosmetic preparations.	02	CO-1
b.	What is OTC product?	02	CO-1
c	Give the classification of cosmetics	02	CO-2
d	Draw neat labelled diagram of Skin	02	CO-1
e	What are preservatives? Give suitable example.	02	CO-2
Q2	Solve only two of the following	10	
a	What are surfactants? Write their applications in the cosmetics with example	05	CO-4
b	Write a note on Cosmeceuticals	05	CO-5
c	Describe hair growth cycle	05	CO-6
Q3	Solve only one of the following	10	
a	Describe in detail about the following i. Rheology modifier ii. Humectant iii. Emollient.	10	CO-5
b	Describe in detail about cleansing cream and vanishing cream.	10	CO-6



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NANDED PHARMACY COLLEGE(DEGREE), NANDED
FIRST SESSIONAL THEORY EXAMINATION 2021-2022

M.Pharm First Year IInd Semester

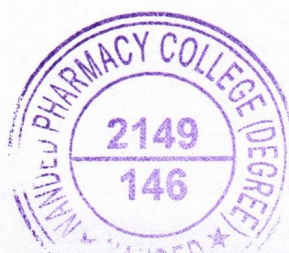
Sub: Advance Pharmacology-II

Date: 13/06/2022

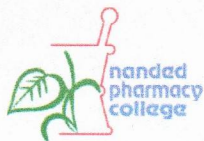
Time: 10.00 a.m. to 11.30 a.m.

Max. Marks: 30

Question No	Question	Max Marks	Co linked
Q1	Solve the following	10	
a.	What are Antithyroid drugs? Give example.	02	CO-1
b.	Write a note on Chemotherapy.	02	CO-1
c	What is Helminthiasis? Give examples of drugs used to treat such condition	02	CO-2
d	Enlist the drugs used in protozoal infections.	02	CO-1
e	Define Antiviral drugs	02	CO-1
Q2	Solve only two of the following	10	
a	Explain the cellular mechanism of action of the following drugs; i) Corticosteroids ii) Growth hormones	05	CO-4
b	Explain the following; i) Chemotherapy of tuberculosis ii) Treatment of fungal infection	05	CO-5
Q3	Solve only one of the following	10	
a	What are antibiotics? Classify and write on pharmacology of B lactam antibiotics.	10	CO-5
b	Write a short note on newer antifungal agents.	10	CO-6
	Write in brief about new drug delivery system in cancer chemotherapy	10	CO-5




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MAPPING OF COURSE OUTCOMSE WITH PROGRAM OUTCOMES

B. PHARM FIRST YEAR, FIRST SEMESTER

Course: Human Anatomy and Physiology I

Course code: BP101T

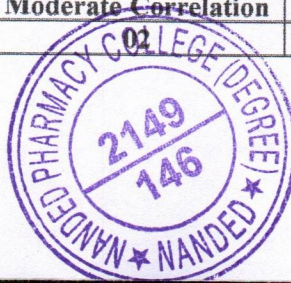
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
BP101T.CO1	3	3	2	2	-	-	3	-	3	2	-	3	
BP101T.CO2	3	-	-	-	-	-	2	-	2	2	-	2	
BP101T.CO3	3	2	2	2	-	-	2	-	3	-	-	3	
BP101T.CO4	3	2	1	3	-	-	2	-	1	2	-	2	
BP101T.CO5	3	-	-	-	-	-	-	-	3	1	-	2	
BP101T.CO6	3	2	-	-	-	-	-	-	2	1	-		
Average	3.0	2.3	1.7	2.3	-	-	2.3	-	2.3	1.6	-	2.4	
												Desired Attainment	2.23

Course: Human Anatomy and Physiology I

Course code: BP107P

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
BP107P.CO1	3	-	3	3	-	-	-	2	3	3	-	2	
BP107P.CO2	3	-	3	2	-	2	-	-	2	2	-	2	
BP107P.CO3	3	-	-	2	-	2	-	2	-	-	-	-	
BP107P.CO4	3	-	2	2	-	2	-	-	-	2	-	2	
BP107P.CO5	3	-	1	-	-	-	-	-	-	1	-	-	
BP107P.CO6	3	-	2	2	-	3	-	3	2	1	-	3	
Average	3	-	2.2	2.2	-	2.25	-	2.3	2.3	1.8	-	2.25	
												Desired Attainment	2.30

Relation of CO with PO Point	Strong/ High Correlation	Moderate Correlation	Low Correlation	No Correlation
	03		01	-



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