

NANDHA COLLEGE OF PHARMACY

Pharmacy

Part A : Institutional Information

1 Name and Address of the Institution

NANDHA COLLEGE OF PHARMACY,
KOORAPALAYAM PIRIVU PITCHANDAMPALAYAM POST ERODE

2 Name and Address of Affiliating University

3 Year of establishment of the Institution:

1992

4 Type of the Institution:

- | | |
|---|---|
| <input type="radio"/> University | <input checked="" type="radio"/> Affiliated |
| <input type="radio"/> Deemed University | <input type="radio"/> Any other(Please Specify) |
| <input type="radio"/> Autonomous | |

5 Ownership Status:

- | | |
|---|--|
| <input type="radio"/> Central Government | <input checked="" type="checkbox"/> Trust |
| <input type="radio"/> State Government | <input type="checkbox"/> Society |
| <input type="radio"/> Grant In Aided | <input type="checkbox"/> Section 25 Company |
| <input checked="" type="radio"/> Self financing | <input type="checkbox"/> Any Other(Please Specify) |

6 Other Academic Institutions of the Trust/Society/etc., if any

Name of Institutions	Year of Establishment	Programs of Study	Location
Nandha Dental College and Hospital	2022	BDS	Pitchandampalayam Post Erode
Nandha Medical College and Hospital	2023	MBBS	Erode-Perundurai Main Road Erode
Nandha College of Physiotherapy	1993	B.P.T & M.P.T	Koorapalayam Pirivu, Erode
Nandha Polytechnic College	1998	Diploma courses	Vaikkaalmedu, Erode
Nandha Nursing Institution	1998	B.Sc., M.Sc., Diploma (Nursing)	Koorapalayam Pirivu, Erode
Nandha Arts and Science College	2000	UG, PG, M.Phil., Ph.D.	Koorapalayam Pirivu, Erode
Nandha Engineering College (Autonomous)	2001	B.E., and M.E.	Vaikkaalmedu, Erode
Nandha College of Education	2006	B.Ed.	Koorapalayam Pirivu, Erode
Nandha Teacher Training Institute	2006	D.El.Ed	Koorapalayam Pirivu, Erode
Nandha College of Technology	2008	B.E., B.Tech., M.E., M.B.A.	Vaikkaal medu, Erode
Nandha Central School (Main Campus)	2009	Montessori: M - I, II and III, Primary- Middle – Senior	Koorapalayam Pirivu, Erode
Nandha Central City (City Campus)	2010	Montessori: M - I, II and III, Primary - Middle - Senior	Erode
Nandha College of Allied Health Sciences	2017	B.Sc., Diploma in Medical Lab Technology	Koorapalayam Pirivu, Erode
Nandha Institute of Health Science	2017	Diploma in Health Inspector/ Sanitary Inspector	Koorapalayam Pirivu, Erode
Nandha Academy of Allied Health Sciences	2018	Bachelor of Operation Theater and Anesthesia Technology, Bachelor of Accident and Emergency Care Technology, Bachelor of Cardiac Care Technology, Bachelor of Radiology Imaging Technology, Diploma in Medical Laboratory Technology	Koorapalayam Pirivu, Erode
Nandha Naturopathy and Yoga	2018	BNYS	Erode-Perundurai Main Road Erode
Nandha Siddha Medical College and Hospital	2019	BSMS	Erode-Perundurai Main Road Erode
Nandha Ayurveda Medical College and Hospital	2019	BAMS	Erode-Perundurai Main Road Erode

7 Details of all the programs being offered by the Institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
B PHARMACY	UG	1992	1992	60	Yes	100	Granted accreditation for 3 years for the period (specify period)	2022	2025	Yes	4
PHARM.D.	PG	2009	2009	30	No	30	Not eligible for accreditation	--	--	No	6
M.PHARMACY PHARMACEUTICS	PG	2002	2002	5	Yes	15	Eligible but not applied	--	--	No	2
M.PHARMACY PHARACEUTICAL CHEMISTRY	PG	2007	2007	10	Yes	12	Eligible but not applied	--	--	No	2
M.PHARMACY PHARMACEUTICAL ANALYSIS	PG	2004	2004	10	Yes	12	Eligible but not applied	--	--	No	2
M.PHARMACY PHARMACOLOGY	PG	2007	2007	10	Yes	15	Eligible but not applied	--	--	No	2
M.PHARMACY PHARMACEUTICAL BIOTECHNOLOGY	PG	2004	2004	6	Yes	9	Eligible but not applied	--	--	No	2

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Pharmacy	Pharmacy

9 Total number of employees

A. Regular* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Pharmacy (Male)	25	25	25	25	26	26
Faculty in Pharmacy (Female)	23	23	24	24	24	24
Faculty in Science & Humanities (Male)	1	1	1	1	1	1
Faculty in Science & Humanities (Female)	1	1	0	0	1	1
Non-teaching staff (Male)	9	9	9	9	9	9
Non-teaching staff (Female)	18	18	18	18	18	18

B. Contractual* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (Female)	0	0	0	0	0	0
Faculty in Pharmacy (Male)	0	0	0	0	0	0
Faculty in Pharmacy (Female)	0	0	0	0	0	0
Faculty in Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Science & Humanities (Female)	0	0	0	0	0	0

10 Total number of Pharmacy students:

UG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Diploma	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

UG Shift-1

Total number of Pharmacy students	2024-25	2023-24	2022-23
Total No. of Boys	238	236	258
Total No. of Girls	154	172	149
Total	392	408	407

PG Shift-1

Total number of Pharmacy students	2024-25	2023-24	2022-23
Total No. of Boys	40	51	55
Total No. of Girls	32	37	50
Total	72	88	105

11 Vision of the Institution:

To produce socially conscious and professionally qualified pharmacists capable of working in a wide range of circumstances with cutting-edge technologies.

12 Mission of the Institution:

- To provide high-quality instruction and training in multidisciplinary areas of pharmaceutical sciences.
- To transmit pharmacy practice knowledge to meet societal demands.
- To offer industrial exposure to the production of high-quality medications by means of research, development and entrepreneurial knowledge.

Website URL: <https://nandhapharmacy.org/vision-mission-2/> (https://nandhapharmacy.org/vision-mission-2/)

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Dr. T. Sivakumar
Designation	Principal
Mobile No.	9842660400
Email ID	sivancp2021@yahoo.com

NBA Coordinator, If Designated

Name	Dr. T. Prabha
Designation	Professor
Mobile No.	9965557346
Email ID	drtpappa@yahoo.com

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	150	150.00
3	COURSE OUTCOMES (COS) AND PROGRAM OUTCOMES (POS)	100	100.00
4	STUDENTS' PERFORMANCE	180	144.03
5	FACULTY INFORMATION AND CONTRIBUTIONS	175	160.72
6	FACILITIES	120	120.00
7	CONTINUOUS IMPROVEMENT	75	71.82
8	STUDENT SUPPORT SYSTEMS	50	50.00
9	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	100	100.00
	Total	1000	947

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

Total Marks 50.00

1.1 State the mission & vision (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	To produce socially conscious and professionally qualified pharmacists capable of working in a wide range of circumstances with cutting-edge technologies.									
Mission of the institute	<ul style="list-style-type: none"> To provide high-quality instruction and training in multidisciplinary areas of pharmaceutical sciences. To transmit pharmacy practice knowledge to meet societal demands. To offer industrial exposure to the production of high-quality medications by means of research, development and entrepreneurial knowledge. <p>Website URL: https://nandhapharmacy.org/vision-mission-2/ (https://nandhapharmacy.org/vision-mission-2/)</p>									
Vision of the Department	To produce socially conscious and professionally qualified pharmacists capable of working in a wide range of circumstances with cutting-edge technologies.									
Mission of the Department	<table border="1"> <thead> <tr> <th>Mission No.</th> <th>Mission Statements</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td> <ul style="list-style-type: none"> To provide high-quality instruction and training in multidisciplinary areas of pharmaceutical sciences. </td> </tr> <tr> <td>M2</td> <td> <ul style="list-style-type: none"> To transmit pharmacy practice knowledge to meet societal demands. </td> </tr> <tr> <td>M3</td> <td> <ul style="list-style-type: none"> To offer industrial exposure to the production of high-quality medications by means of research, development and entrepreneurial knowledge. </td> </tr> </tbody> </table>	Mission No.	Mission Statements	M1	<ul style="list-style-type: none"> To provide high-quality instruction and training in multidisciplinary areas of pharmaceutical sciences. 	M2	<ul style="list-style-type: none"> To transmit pharmacy practice knowledge to meet societal demands. 	M3	<ul style="list-style-type: none"> To offer industrial exposure to the production of high-quality medications by means of research, development and entrepreneurial knowledge. 	
Mission No.	Mission Statements									
M1	<ul style="list-style-type: none"> To provide high-quality instruction and training in multidisciplinary areas of pharmaceutical sciences. 									
M2	<ul style="list-style-type: none"> To transmit pharmacy practice knowledge to meet societal demands. 									
M3	<ul style="list-style-type: none"> To offer industrial exposure to the production of high-quality medications by means of research, development and entrepreneurial knowledge. 									

1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Aspiring professionals holding robust technical abilities to adapt to the various demands of the pharmaceutical sector. 
PEO2	Ability to recognise the needs of society in terms of pharmaceuticals and offer creative solutions to current problems through research and entrepreneurship skills. 
PEO3	Able to exhibit organisational competence and moral behaviour by continuous learning 

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

Total Marks 15.00

Effective dissemination of Vision, Mission, and Program Educational Objectives (PEOs) are carried out among internal and external stakeholders.

Internal Stakeholders

- Students
- Faculty members
- Non-teaching staff
- Management

External Stakeholders

- Employers
- Alumni
- Academic Professionals
- Parents

The Vision, Mission, and Program Educational Objectives (PEOs) are disseminated through the following methods:

- **Website Publication:** Publishing the Vision, Mission, and PEOs on the institution's official website ensures easy access for both internal and external stakeholders. It provides a centralized location for individuals to refer the information www.nandhapharmacy.org (<http://www.nandhapharmacy.org/>)
- **Orientation/OBE workshop:** Vision, Mission and PEOs are presented and discussed during the orientation program conducted for the first-year students and discussed in the outcome-based education (OBE) workshop given to the students and the faculty every semester.
- **Displaying in Prominent places:** Vision, Mission and PEOs are displayed in all prominent places of the Institution such as Principal/HoD's room, corridors in all the floor, Classrooms, laboratories, Library, board room, placement cell and conference room.
- **Brochures/Pamphlets:** The Vision, Mission and PEOs are printed in the college brochures or pamphlets, newsletters and magazines. These printed materials are circulated to the internal and external stakeholders.
- **Social Media Platforms:** The Vision, Mission and PEOs are posted in the college official social media platform like Facebook, Instagram, etc.,
- **Governing Bodies/PAC/DAB**

The Vision, Mission and PEOs are discussed in every semester in the Program Assessment Committee (PAC), Department Advisory Board (DAB) and governing body meetings. These meetings include internal and external stakeholders.

- **Alumni/Employer meeting**

The Vision, Mission and PEOs are displayed and disseminated in the presentation of alumni and during placement meeting (during preplacement talk)

By employing a combination of these methods, organizations can effectively disseminate their Vision, Mission, and PEOs to internal and external stakeholders, fostering alignment, understanding, and engagement across the board.

Dissemination of Vision, Mission statements of the Institute along with PEOs to the various stakeholders are given in Table B.1.3a.

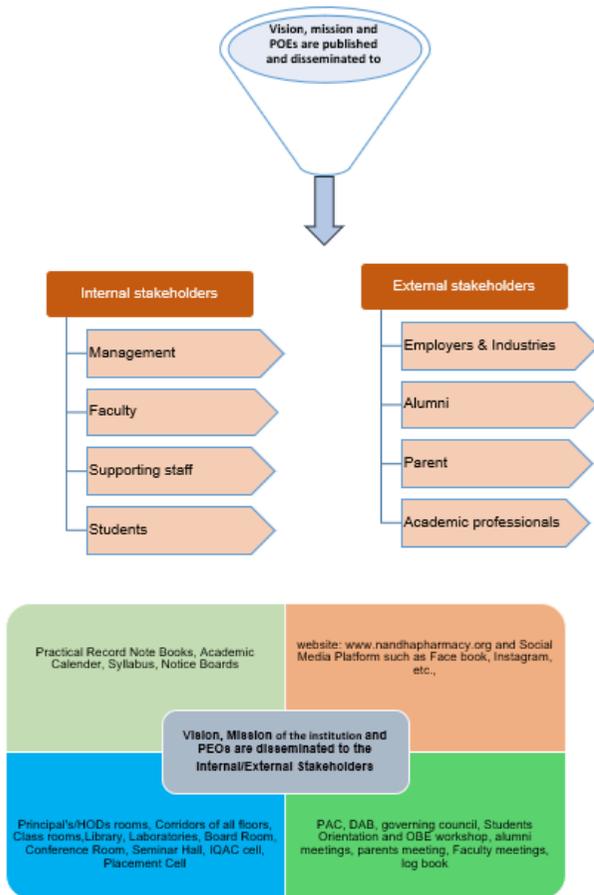


Table B.1.3a Dissemination of Vision, Mission statements of the Institution along with POEs

S.NO	DISSEMINATION			
	BY	TO	CONTENT	PROCESS OF DISSEMINATION

1.	Head of the Institution	Faculty members	<ol style="list-style-type: none"> 1. Vision and Mission statements of the Institution 2. PEOs 3. Program Outcomes 4. Program Specific Outcomes 5. Awareness and Implementation of Bloom's Taxonomy levels in Teaching and Learning Process 6. Preparation of Course Delivery Plans 7. Assessment Systems and Tools 	Faculty meeting in the beginning of every semester and subsequent review meetings
2.	Head of the Institution	Parents	<ol style="list-style-type: none"> 1. Vision and Mission statements of the Institution 2. PEOs 	<ol style="list-style-type: none"> 1. Parents Meeting 2. Institution News Letter 3. Institution Website
3.	Academic Coordinator	Students of the Institution	<ol style="list-style-type: none"> 1. Vision and Mission statements of the Institution 2. PEOs 3. POs and PSOs 	<ol style="list-style-type: none"> 1. First day of every Semester 2. Institution Website 3. Laboratory Record Notebooks 4. Curriculum & Syllabus 5. Class Note Book
4.	Alumni Cell	Alumni	<ol style="list-style-type: none"> 1. Vision and Mission of the Institute 	<ol style="list-style-type: none"> 1. Alumni Meet
5.	Employers	Employers	<ol style="list-style-type: none"> 1. Vision and Mission of the Institute 	<ol style="list-style-type: none"> 1. On Campus Drive
6.	Newsletter and Magazines	Students, Alumni and Employers	<ol style="list-style-type: none"> 1. Vision and Mission of the Institute 	Printed matter and online magazine
2.	OBE orientation	First semester students	<ol style="list-style-type: none"> 1. Vision and Mission of the Institute 	

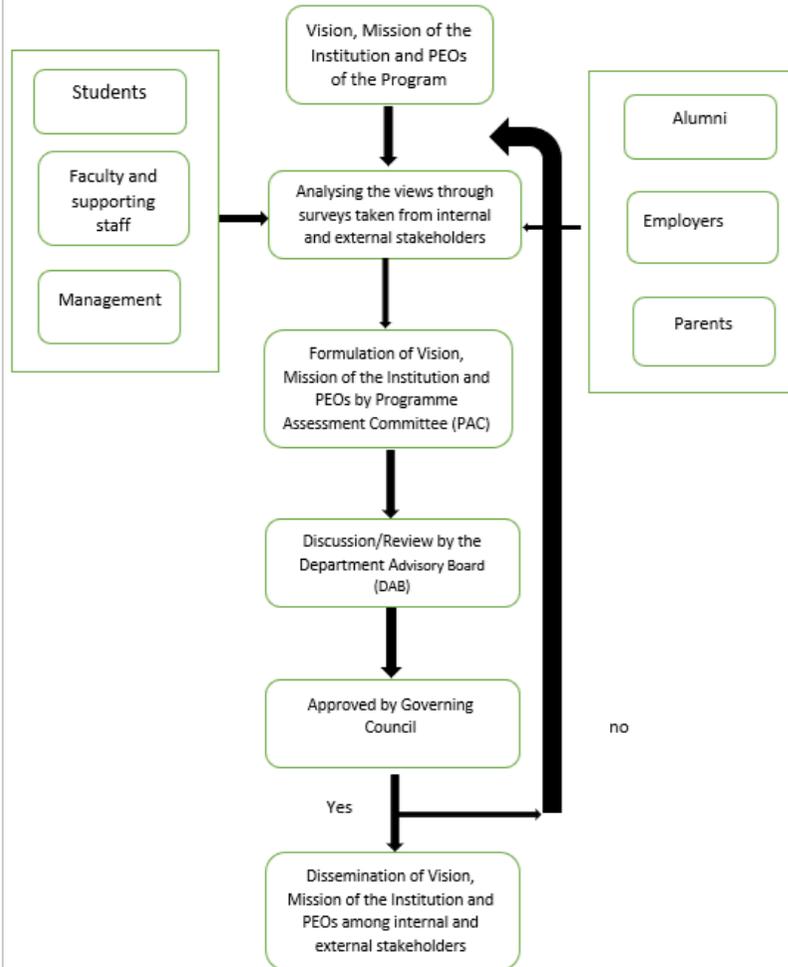
1.4 State the process for defining the Vision & Mission and PEOs of the program (10)

Total Marks 10.00

Process for defining the Vision and Mission of the Institute is presented as a flowchart followed by description.

The institution has framed the Vision and Mission Statements through consultative process involving internal stakeholders (management, faculty, support staff, students) and external stakeholders (employers, industry, alumni and external academic professionals) considering the scope and growth of the college and the future societal needs.

The vision statement is a long-term goal of our institution. The mission statements are the short-term goals to achieve our mission. The PEOs are statements of objectives that our graduate will be able to attain 3-5 years after graduation.



1)

Figure 1: Process for defining the Vision and Mission of the Institute

The Vision and Mission are established through the following process steps:

Following step by step procedure is followed for defining Vision and Mission of the Institute and PEOs.

- A Programme Assessment Committee (PAC) involving Principal, HoD and faculty members in the department formulates the Vision, Mission of the Institution and PEOs after collecting views from the internal and external stakeholders through survey.
- The formulated Vision, Mission of the Institution and PEOs in the PAC meeting are presented in the DAB meeting. The DAB meeting includes Principal, HOD, faculty, students, alumni, parent and academic professionals.
- The Vision, Mission of the Institution and PEOs are finalized in the DAB meeting and presented in the Governing Body meeting and approval are obtained.
- Every year in the PAC, DAB and Governing Body meetings, Vision, Mission of the Institution and PEOs are reviewed for the progress of attainment.

Minutes of meetings of PAC meeting (Proposal for the revision of Vision and Mission)

The proceedings of PAC started and the minutes of the meetings are recorded:

- The chairman of the PAC introduced and welcomed the members following a brief note on the functioning of PAC.
- Review the previous PAC meetings minutes
- PAC chairman presented the previous PAC meeting minutes (date) and action taken report.
- Resolved to approve the PAC Meetings minute
- Members are suggested including programming courses after 2nd semester for the benefit of lateral entry students.
- Placement coordinators opined to provide credits to the students those who are undergoing industry related placement training.
- Members suggested to consider the actual credits earned through online courses while giving exemption of courses.
- Resolved to consider the suggestions of members in the upcoming curriculum.
- Revision of vision, mission, PEOs and PSOs of the institute
- PAC reviewed the Vision, Mission, statement of the Institute and PSO, suggestions given by the experts at various occasions. It was decided to make changes and place before DAB for approval.
- Resolved to approve the decisions and place the same in the next DAB.

Minutes of meetings of DAB meeting (Proposal for the revision of Vision and Mission)

The proceedings of DAB started and the minutes of the meetings are recorded:

- The chairman of the DAB introduced and welcomed the members following a brief note on the functioning of DAB.
- Review the previous DAB meetings minutes
- DAB chairman presented the previous DAB meeting minutes (date) and action taken report.
- Resolved to approve the DAB Meetings minute
- Members are suggested including programming courses after 2nd semester for the benefit of lateral entry students.
- Placement coordinators opined to provide credits to the students those who are undergoing industry related placement training.
- Members suggested to consider the actual credits earned through online courses while giving exemption of courses.
- Resolved to consider the suggestions of members in the upcoming curriculum.
- Revision of vision, mission, PEOs and PSOs of the institute

- DAB reviewed the Vision, Mission, statement of the Institute and PSO, suggestions given by the experts at various occasions.
- Resolved to approve the decisions and place the same in the next DAB.

1.5 Establish consistency of PEOs with Mission of the Institute (15)

Total Marks 15.00

JUSTIFICATION PARAMETERS OF INSTITUTE MISSION AND PEOS**Keywords used for Justification and rationale of mapping**

	M1	M2	M3
PEO 1	<ul style="list-style-type: none"> High quality instructions. Multidisciplinary areas of pharmaceutical sciences. Technical positions 	<ul style="list-style-type: none"> Pharmacy practice knowledge Demands of pharmaceutical industry and society 	<ul style="list-style-type: none"> Research and Development Entrepreneurship
PEO 2	<ul style="list-style-type: none"> High quality instructions State of training Multidisciplinary areas of pharmaceutical sciences. 	<ul style="list-style-type: none"> Societal demands Research Entrepreneurship 	<ul style="list-style-type: none"> High quality Research Development Entrepreneurship
PEO 3	<ul style="list-style-type: none"> Organizational competency Continuous learning 	<ul style="list-style-type: none"> Societal demands Pharmaceutical industry 	<ul style="list-style-type: none"> Industrial exposure Research Development Entrepreneurship

I. Justification between institution Mission and PEO1

1. Justification parameter between Institution Mission 1 and PEO 1

Substantial correlation of M1 with PEO 1 since high quality instructions and state of the art training in multi-disciplinary areas of pharmaceutical sciences are provided to produce aspiring professionals holding higher technical positions in the pharmaceutical industry.

2. Justification Parameter between institution Mission 2 and PEO 1

Mission 2 has substantial correlation with PEO 1 because the robust technical ability can be achieved by transmitting pharmacy practice to the various demands of industry and society.

3. Justification between Institute Mission 3 and PEO 1

Mission 3 has a moderate correlation with PEO1 since mission 3 focuses more on research and entrepreneurship however imparting technical and basics skills are essential for research, development and entrepreneurship.

II. Justification parameters of Institution Mission and PEO 2

1. Justification of Mission 1 and PEO 2

Mission 1 has substantial correlation with PEO 2 since to offer creative solution imparting high quality instruction and state of art training is essential in the multi-disciplinary areas of pharmaceutical sciences.

2. Justification of Mission 2 and PEO 2

Mission 2 has high correlation with PEO 2 since the pharmacy knowledge imparted to meet the societal demands and offer creative solution to current problems faced by the society through research and entrepreneurship.

3. Justification parameters of Mission 3 and PEO 2

Mission 3 is highly corelated with PEO2 because the graduates will process high quality research development and entrepreneurship knowledge to meet demands of the society with ethical behaviour.

III. Justification parameters of Mission and PEO 3

1. Justification parameters of Mission 1 and PEO 3

Mission 1 has substantial correlation with PEO 3 because high quality instructions and training with continuous learning attitude will provide organisational competency in multi-disciplinary areas of pharmaceutical sciences.

1. Justification parameters of Mission 2 and PEO3

Mission 2 has moderate correlation with PEO 3 since pharmacy practical knowledge focus more on creating ethical solution to current problems of societal demands and pharmaceutical industry.

2. Justification parameters of Mission 3 and PEO 3

Mission 3 has moderate correlation with PEO 3 because it offers more industrial exposure by means of research, development and entrepreneurship.

PEO Statements	M1	M2	M3
Aspiring professionals holding robust technical abilities to adapt to the various demands of the pharmaceutical sector.	3	3	2
Ability to recognise the needs of society in terms of pharmaceuticals and offer creative solutions to current problems through researc and entrepreneurship skills.	3	3	3
Able to exhibit organisational competence and moral behaviour by continuous learning	3	2	2

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (150)

Total Marks 150.00

2.1 Program Curriculum (40)

Total Marks 40.00

2.1.1 Delivery of Syllabus Contents and compliance of the curriculum for attainment of POs (10)

Institute Marks : 10.00

The curriculum prescribed by Pharmacy Council of India, New Delhi for B. Pharm course. The framed syllabus (Revised) is regulated by The Tamil Nadu Dr. M.G.R Medical University, Chennai.

1.The Programme curriculum and syllabus provided by the university.

2.Programme Assessment Committee (PAC) consists of HOD's, faculty members and students of the pharmacy department. The committee meets two times in an academic year to review the following functions:

- Course Outcomes (CO's) and Programme Specific Outcomes (PSO's) have been formulated in Programme Assessment Committee(PAC) and the same is approved in Departmental Advisory Board (DAB), consists of HOD's , faculty and students of the pharmacy department, alumni , industrial experts and academic experts.
- Course outcomes are mapped with PO's and PSO's for all courses in Programme Assessment Committee(PAC) and the same is approved in Departmental Advisory Board(DAB)
- The curriculum gap is identified based on the CO's – PO's mapping and the attainment calculated for the previous batch. If the attainment is low, the gap is identified and actions are taken to bridge the gap.
- If CO – PO mapping is less than moderate level, it is considered as the gap and necessary actions are taken.
- The curriculum gap is communicated to the university.
- Based on the curriculum gap, the contents beyond the syllabus are identified.
- The course plan/lab plan, and assessment plan are devised.

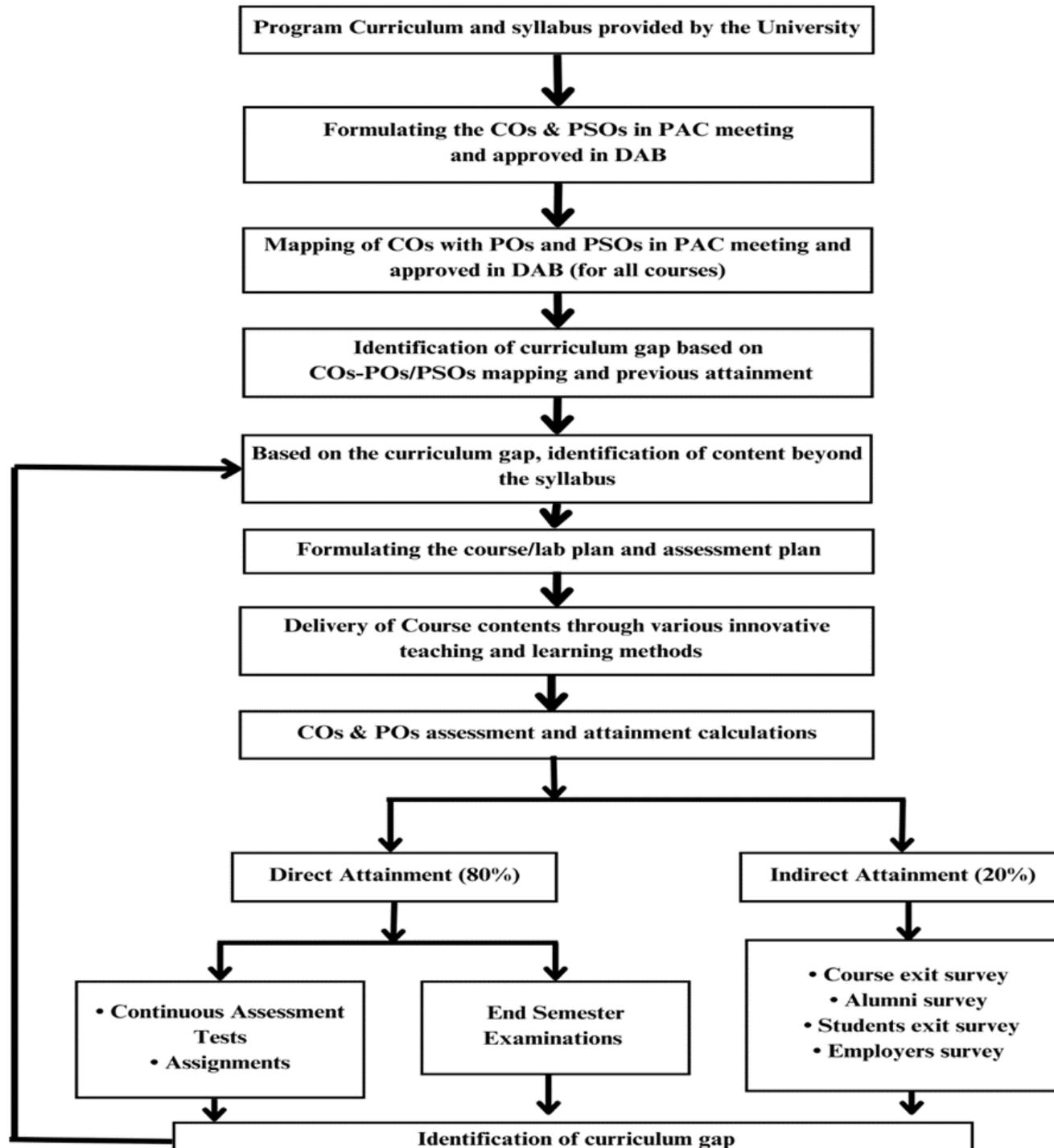
3.Assessment plan are formulated and evaluation is carried out accordingly.

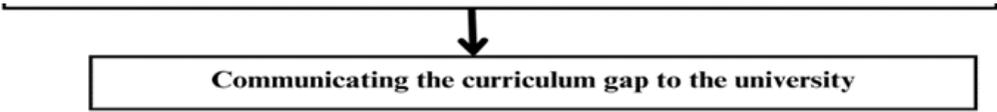
4.Course outcome attainment is calculated based on the student's score in the assessment. The direct method with the weightage of 80% and course end survey is used as an indirect method for 20% weightage.

5.The target in the course attainment calculation is taken based on the previous semester batch student's performance and the current student's overall academic performance.

6.Programme attainment is calculated for every batch. 80% cumulative course outcome attainment and 20% through programme exit survey, alumni survey and employers survey are used for the PO attainment calculation.

7.Programme outcome which are not attained are considered as the gap and actions are taken to fill the gap. The target for the PO is revised based on the PO attainment of the previous batch and the current batch academic performance.





Communicating the curriculum gap to the university

Figure 1: Process for attaining PO's and CO's

Course of study

The course of study for B. Pharm include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in below table:

TABLE I: COURSE OF STUDY FOR SEMESTER I

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	14	
BP102T	Pharmaceutical Analysis I – Theory	3	14	
BP103T	Pharmaceutics I – Theory	3	14	
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	14	
BP105T	Communication skills – Theory *	2	-2	
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-2	
BP107P	Human Anatomy and Physiology – Practical	4	-2	
BP108P	Pharmaceutical Analysis I – Practical	4	-2	
BP109P	Pharmaceutics I – Practical	4	-2	
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-2	
BP111P	Communication skills – Practical*	2	-1	
BP112RBP	Remedial Biology – Practical*	2	-1	
Total		32/34[§]/36[#]	4	27/29[§]/30[#]

Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

[§]Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

* Non University Examination (NUE)

TABLE II: COURSE OF STUDY FOR SEMESTER II

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	31		4
BP202T	Pharmaceutical Organic Chemistry I – Theory	31		4
BP203T	Biochemistry – Theory	31		4
BP204T	Pathophysiology – Theory	31		4
BP205T	Computer Applications in Pharmacy – Theory *	3-		3
BP206T	Environmental sciences – Theory *	3-		3
BP207P	Human Anatomy and Physiology II –Practical	4-		2
BP208P	Pharmaceutical Organic Chemistry I– Practical	4-		2
BP209P	Biochemistry – Practical	4-		2
BP210P	Computer Applications in Pharmacy – Practical*	2-		1
Total		324		29

TABLE III: COURSE OF STUDY FOR SEMESTER III

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	31		4
BP302T	Physical Pharmaceutics I – Theory	31		4
BP303T	Pharmaceutical Microbiology – Theory	31		4
BP304T	Pharmaceutical Engineering – Theory	31		4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4-		2
BP306P	Physical Pharmaceutics I – Practical	4-		2
BP307P	Pharmaceutical Microbiology – Practical	4-		2
BP 308P	Pharmaceutical Engineering –Practical	4-		2
Total		284		24

TABLE IV: COURSE OF STUDY FOR SEMESTER IV

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP401T	Pharmaceutical Organic Chemistry III– Theory	31	4	4
BP402T	Medicinal Chemistry I – Theory	31	4	4
BP403T	Physical Pharmaceutics II – Theory	31	4	4
BP404T	Pharmacology I – Theory	31	4	4
BP405T	Pharmacognosy and Phytochemistry I– Theory	31	4	4
BP406P	Medicinal Chemistry I – Practical	4-	2	2
BP407P	Physical Pharmaceutics II – Practical	4	2	2
BP408P	Pharmacology I – Practical	4-	2	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4-	2	2
Total		315		28

TABLE V: COURSE OF STUDY FOR SEMESTER V

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II – Theory	31	4	4
BP502T	Industrial Pharmacy I– Theory	31	4	4
BP503T	Pharmacology II – Theory	31	4	4
BP504T	Pharmacognosy and Phytochemistry II– Theory	31	4	4
BP505T	Pharmaceutical Jurisprudence – Theory	31	4	4
BP506P	Industrial PharmacyI – Practical	4-	2	2
BP507P	Pharmacology II – Practical	4-	2	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4-	2	2
Total		275		26

TABLE VI: COURSE OF STUDY FOR SEMESTER VI

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3	1	4

BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
BP605T	Pharmaceutical Biotechnology – Theory	3	1	4
BP606T	Quality Assurance – Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
Total		30	6	30

TABLE VII: COURSE OF STUDY FOR SEMESTER VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial Pharmacy II – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis – Practical	4	-	2
BP706PS	Practice School*	12	-	6
Total		28	5	24

TABLE VIII: COURSE OF STUDY FOR SEMESTER VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	31		4
BP802T	Social and Preventive Pharmacy	31		4

BP803ET	Pharma Marketing Management			
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology	3 + 3 =	1 + 1 =	4 + 4 =
BP809ET	Cosmetic Science	6	2	8
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work		12-	6
Total			244	22

Table IX: Semester wise credits distribution

Semester	Credit Points
I	27/29 [§] /30 [#]
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	209/211[§]/212[#]

* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principal of the college and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time. The choice based credit system is followed as per the provisions given by the university.

[§]Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

[#]Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

2.1.2 State the delivery details of the contents beyond the Syllabus for the attainment of POs (20)

2024-25

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of students Present	Relevance to POs
1	Bionano mater	Guest lecture	06/11/2024	Dr. K. Rukmani, Professr	297	PO4,PO10
2	Awareness on	Awareness pro	25/09/2024	-	250	PO4,PO9,PO10
3	Modern technc	Workshop	18/09/2024	B.Greeshma, Clinical Re	96	PO4,PO5,PO7
4	Optimal batch	Guest lecture	28/08/2024	Dr.Subrahanya Bhat, Dir	198	PO9,PO10
5	Discovering dis	Guest Lecture	16/07/2024	Dr. Are Holen, Clinical Ps	197	PO4,PO5
6	Future of Chroi	Seminar	19/06/2024	Dr.V.Parthasarathi, Assoc	298	PO7, ,PO9,PO10

2023-24

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of students Present	Relevance to POs
1	Therapeutic dri	Seminar	31/01/2024	Dr.Subrahanya Bhat, Dir	86	PO4
2	Latest develop	Workshop	14/02/2024	Dr.Damodaran, Professc	99	PO4
3	Effective comn	Seminar	16/12/2023	Ms. Thendral, M.A., M.P	97	PO4
4	Role of clinical	Guest lecture	30/11/2023	Dr. Arun Pandian, Nucle:	98	PO4
5	Role of clinical	Workshop	30/11/2023	Dr. Anita Ann Sunny Pha	97	PO4,PO5
6	Hands on expe	Hands on train	23/11/2023	Dr. R.Illavarasan, Assista	190	PO4,PO5
7	Modern technc	Guest lecture	25/10/2023	Dr. Randy Pembroke, Cf	199	PO4,PO5
8	Data Assessme	Hands on train	13/09/2023	Mr.Muthu Kumar M.Pharm	98	PO4,PO2
9	Effective docur	Guest Lecture	11/04/2023	Dr. M. Elizabeth Sobhia,	280	PO7,PO9,PO10

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of students Present	Relevance to POs
1	Pharmaceutica	Guest Lecture	26/07/2023	Dr. Veerendra Chandrala	285	PO7,PO9
2	Animal handlin	Hands on train	20/04/2023	Dr.R.Vadivelan Professor	96	PO7,PO9,PO10
3	Advanced in ce	Guest lecture	18/04/2023	Dr. S. Kavimani Prof. anc	289	PO7,PO9,PO10
4	Stability aspec	Guest lecture	15/06/2023	Dr. P.Solairaj, M.Pharm.,	190	PO4,PO5
5	Diagnosis & Pl	Seminar	24/03/2023	Siva Shanmugam.S Dire	285	PO10
6	Diagnosis & Pl	Seminar	25/02/2023	Siva Shanmugam.S Dire	198	PO5
7	Marketing strat	Workshop	09/02/2023	Dr. J.Anbu Jeba Sunilso	98	PO7
8	Information on	Guest lecture	07/12/2022	Prof.V.Gopal, Principal, C	197	PO7,PO9
9	Analytical techi	Workshop	29/10/2022	S. Siva Shanmugam, Dir	96	PO4,PO5

2.1.3 Adherence to Academic Calendar (10)

Institute Marks : 10.00

1. Based on university schedule, the department prepares the academic calendar for B.pharmacy programme.
2. Academic calendar discussed in PAC meeting.
3. The academic calendar includes the following schedule:
 - Outcome based education(OBE) orientation to the students (every semester)
 - PAC meeting schedule
 - DAB meeting schedule
 - Course coordinator meeting schedule
 - Academic delivery and assessment schedule
 - Alumni interactions
 - Co and extra-curricular activities
 - Class committee meeting schedule
 - Parents meeting

Table 1: ACADEMIC CALENDAR -B.PHARMACY (2023-24)

DATE	DAY	III SEMESTER	IV SEMESTER	REMARKS
10/11/2023	WEDNESDAY			HODs meeting
10/12/2023	THURSDAY			Submission of timetable
10/13/2023	FRIDAY			
10/14/2023	SATURDAY			Academic audit
10/15/2023	SUNDAY	****	****	Holiday
10/16/2023	MONDAY			
10/17/2023	TUESDAY			
10/18/2023	WEDNESDAY			HODs meeting
10/19/2023	THURSDAY			
10/20/2023	FRIDAY			Pooja celebration
10/21/2023	SATURDAY			
10/22/2023	SUNDAY	****	****	Holiday
10/23/2023	MONDAY	****	****	Ayudha pooja
10/24/2023	TUESDAY	****	****	Vijaya dhasami
10/25/2023	WEDNESDAY			HODs meeting
10/26/2023	THURSDAY			

10/27/2023	FRIDAY			Annual presentation of 2022-23
10/28/2023	SATURDAY			Programme Assessment Committee meeting - I
10/29/2023	SUNDAY	****	****	Holiday
10/30/2023	MONDAY			
10/31/2023	TUESDAY			Submission of Dept. event calender to IQAC
11/1/2023	WEDNESDAY			HODs meeting
11/2/2023	THURSDAY			
11/3/2023	FRIDAY			Meeting of all cell & Non-Statutory committee
11/4/2023	SATURDAY			Departmental Advisory Board meeting - I
11/5/2023	SUNDAY	****	****	Holiday
11/6/2023	MONDAY			
11/7/2023	TUESDAY			
11/8/2023	WEDNESDAY			HODs meeting
11/9/2023	THURSDAY			
11/10/2023	FRIDAY			Submission of MoM for all cell & Non-Statutory Committee to IQAC
11/11/2023	SATURDAY	****	****	Holiday
11/12/2023	SUNDAY	****	****	Deepawali
11/13/2023	MONDAY	****	****	Holiday
11/14/2023	TUESDAY			
11/15/2023	WEDNESDAY			HODs meeting
11/16/2023	THURSDAY			
11/17/2023	FRIDAY			Review of Institute vision & mission
11/18/2023	SATURDAY			
11/19/2023	SUNDAY	****	****	Holiday
11/20/2023	MONDAY			
11/21/2023	TUESDAY			
11/22/2023	WEDNESDAY			HODs meeting
11/23/2023	THURSDAY			

11/24/2023	FRIDAY			
11/25/2023	SATURDAY			
11/26/2023	SUNDAY	****	****	Holiday
11/27/2023	MONDAY			
11/28/2023	TUESDAY			
11/29/2023	WEDNESDAY			HODs meeting
11/30/2023	THURSDAY			
12/1/2023	FRIDAY			World AIDS day
12/2/2023	SATURDAY			National Pollution Control day
12/3/2023	SUNDAY	****	****	Holiday
12/4/2023	MONDAY			
12/5/2023	TUESDAY			
12/6/2023	WEDNESDAY			HODs meeting
12/7/2023	THURSDAY			
12/8/2023	FRIDAY			
12/9/2023	SATURDAY			
12/10/2023	SUNDAY	****	****	Holiday
12/11/2023	MONDAY			Pharmacy week sports celebration
12/12/2023	TUESDAY			
12/13/2023	WEDNESDAY			
12/14/2023	THURSDAY			
12/15/2023	FRIDAY			
12/16/2023	SATURDAY			
12/17/2023	SUNDAY	****	****	Holiday
12/18/2023	MONDAY			Pharmacy week cultural celebration
12/19/2023	TUESDAY			
12/20/2023	WEDNESDAY			
12/21/2023	THURSDAY			
12/22/2023	FRIDAY			
12/23/2023	SATURDAY			
12/24/2023	SUNDAY	****	****	Holiday

12/25/2023	MONDAY			Christmas
12/26/2023	TUESDAY			
12/27/2023	WEDNESDAY			HODs meeting
12/28/2023	THURSDAY			
12/29/2023	FRIDAY			
12/30/2023	SATURDAY			
12/31/2023	SUNDAY	****	****	Holiday
1/1/2024	MONDAY	****	****	New year
1/2/2024	TUESDAY			
1/3/2024	WEDNESDAY			HODs meeting
1/4/2024	THURSDAY			
1/5/2024	FRIDAY			
1/6/2024	SATURDAY			
1/7/2024	SUNDAY	****	****	Holiday
1/8/2024	MONDAY			
1/9/2024	TUESDAY			
1/10/2024	WEDNESDAY			HODs meeting
1/11/2024	THURSDAY			
1/12/2024	FRIDAY			Pongal celebration
1/13/2024	SATURDAY	****	****	Holiday
1/14/2024	SUNDAY	****	****	Holiday
1/15/2024	MONDAY	****	****	Pongal
1/16/2024	TUESDAY	****	****	Maattu pongal
1/17/2024	WEDNESDAY	****	****	Uzhavar thirunal
1/18/2024	THURSDAY			
1/19/2024	FRIDAY			National Youth day
1/20/2024	SATURDAY			
1/21/2024	SUNDAY	****	****	Holiday
1/22/2024	MONDAY			
1/23/2024	TUESDAY			
1/24/2024	WEDNESDAY			HODs meeting

1/25/2024	THURSDAY	****	****	Thaipooosam
1/26/2024	FRIDAY	****	****	Republic day
1/27/2024	SATURDAY	****	****	Holiday
1/28/2024	SUNDAY	****	****	Holiday
1/29/2024	MONDAY			
1/30/2024	TUESDAY			
1/31/2024	WEDNESDAY			HODs meeting
2/1/2024	THURSDAY			
2/2/2024	FRIDAY			Programme Assessment Committee meeting - II
2/3/2024	SATURDAY			
2/4/2024	SUNDAY	****	****	Holiday
2/5/2024	MONDAY			
2/6/2024	TUESDAY			
2/7/2024	WEDNESDAY			HODs meeting
2/8/2024	THURSDAY			
2/9/2024	FRIDAY			
2/10/2024	SATURDAY	****	****	Holiday
2/11/2024	SUNDAY	****	****	Holiday
2/12/2024	MONDAY			
2/13/2024	TUESDAY			
2/14/2024	WEDNESDAY			HODs meeting
2/15/2024	THURSDAY			
2/16/2024	FRIDAY			Departmental Advisory Board meeting - II
2/17/2024	SATURDAY			
2/18/2024	SUNDAY	****	****	Holiday
2/19/2024	MONDAY		Commencement of classes (IV sem)	
2/20/2024	TUESDAY		OBE orientation	
2/21/2024	WEDNESDAY			HODs meeting
2/22/2024	THURSDAY			

2/23/2024	FRIDAY			
2/24/2024	SATURDAY	****	****	Holiday
2/25/2024	SUNDAY	****	****	Holiday
2/26/2024	MONDAY			
2/27/2024	TUESDAY			
2/28/2024	WEDNESDAY			HODs meeting
2/29/2024	THURSDAY			
3/1/2024	FRIDAY			
3/2/2024	SATURDAY			
3/3/2024	SUNDAY	****	****	Holiday
3/4/2024	MONDAY			
3/5/2024	TUESDAY			
3/6/2024	WEDNESDAY			HODs meeting
3/7/2024	THURSDAY			
3/8/2024	FRIDAY			
3/9/2024	SATURDAY	****	****	Holiday
3/10/2024	SUNDAY	****	****	Holiday
3/11/2024	MONDAY	Commencement of classes (III sem)		
3/12/2024	TUESDAY	OBE orientation		
3/13/2024	WEDNESDAY			HODs meeting
3/14/2024	THURSDAY			
3/15/2024	FRIDAY			
3/16/2024	SATURDAY			
3/17/2024	SUNDAY	****	****	Holiday
3/18/2024	MONDAY			
3/19/2024	TUESDAY			
3/20/2024	WEDNESDAY			HODs meeting
3/21/2024	THURSDAY			
3/22/2024	FRIDAY			
3/23/2024	SATURDAY	****	****	Holiday

3/24/2024	SUNDAY	****	****	Holiday
3/25/2024	MONDAY			Mid semester feedback
3/26/2024	TUESDAY			
3/27/2024	WEDNESDAY			HODs meeting
3/28/2024	THURSDAY			
3/29/2024	FRIDAY	****	****	Good Friday
3/30/2024	SATURDAY			
3/31/2024	SUNDAY	****	****	Holiday
4/1/2024	MONDAY			
4/2/2024	TUESDAY			
4/3/2024	WEDNESDAY			HODs meeting
4/4/2024	THURSDAY			
4/5/2024	FRIDAY			
4/6/2024	SATURDAY			
4/7/2024	SUNDAY	****	****	Holiday
4/8/2024	MONDAY			
4/9/2024	TUESDAY	****	****	Telugu New Year
4/10/2024	WEDNESDAY			HODs meeting
4/11/2024	THURSDAY	****	****	Ramzan
4/12/2024	FRIDAY			
4/13/2024	SATURDAY	****	****	Holiday
4/14/2024	SUNDAY	****	****	Tamil New Year
4/15/2024	MONDAY			
4/16/2024	TUESDAY			
4/17/2024	WEDNESDAY			HODs meeting
4/18/2024	THURSDAY			
4/19/2024	FRIDAY			Submission of mentoring reports to chief mentor
4/20/2024	SATURDAY			
4/21/2024	SUNDAY	****	****	Mahaveer Jayanthi
4/22/2024	MONDAY			

4/23/2024	TUESDAY			
4/24/2024	WEDNESDAY			HODs meeting
4/25/2024	THURSDAY			
4/26/2024	FRIDAY			
4/27/2024	SATURDAY	****	****	Holiday
4/28/2024	SUNDAY	****	****	Holiday
4/29/2024	MONDAY		Assignment I	
4/30/2024	TUESDAY			
5/1/2024	WEDNESDAY	****	****	Holiday
5/2/2024	THURSDAY	Assignment I	Proctor meeting I	
5/3/2024	FRIDAY	Proctor meeting I		
5/4/2024	SATURDAY			
5/5/2024	SUNDAY	****	****	Holiday
5/6/2024	MONDAY	First sessional exams	First sessional exams	
5/7/2024	TUESDAY			
5/8/2024	WEDNESDAY			HODs meeting
5/9/2024	THURSDAY			
5/10/2024	FRIDAY			
5/11/2024	SATURDAY	****	****	Holiday
5/12/2024	SUNDAY	****	****	Holiday
5/13/2024	MONDAY			
5/14/2024	TUESDAY	First sessional practical	First sessional practical	
5/15/2024	WEDNESDAY			HODs meeting
5/16/2024	THURSDAY			
5/17/2024	FRIDAY			Programme Assessment Committee meeting - III
5/18/2024	SATURDAY			
5/19/2024	SUNDAY	****	****	Holiday
5/20/2024	MONDAY			
5/21/2024	TUESDAY			
5/22/2024	WEDNESDAY			HODs meeting

5/23/2024	THURSDAY			
5/24/2024	FRIDAY	Submission of first sessional result to principal	Submission of First sessional result to Principal	Departmental Advisory Board meeting - III
5/25/2024	SATURDAY	****	****	Holiday
5/26/2024	SUNDAY	****	****	Holiday
5/27/2024	MONDAY			
5/28/2024	TUESDAY	Class Committee Meeting I		
5/29/2024	WEDNESDAY		Class Committee Meeting I	HODs meeting
5/30/2024	THURSDAY	Parents Teachers Meeting I		
5/31/2024	FRIDAY		Parents Teachers Meeting I	
6/1/2024	SATURDAY			
6/2/2024	SUNDAY	****	****	Holiday
6/3/2024	MONDAY			
6/4/2024	TUESDAY			
6/5/2024	WEDNESDAY			HODs meeting
6/6/2024	THURSDAY			
6/7/2024	FRIDAY			
6/8/2024	SATURDAY	****	****	Holiday
6/9/2024	SUNDAY	****	****	Holiday
6/10/2024	MONDAY			
6/11/2024	TUESDAY			
6/12/2024	WEDNESDAY			
6/13/2024	THURSDAY			
6/14/2024	FRIDAY			
6/15/2024	SATURDAY			
6/16/2024	SUNDAY	****	****	Holiday
6/17/2024	MONDAY	****	****	Bakrid
6/18/2024	TUESDAY			
6/19/2024	WEDNESDAY			HODs meeting
6/20/2024	THURSDAY			
6/21/2024	FRIDAY			

6/22/2024	SATURDAY	****	****	Holiday
6/23/2024	SUNDAY	****	****	Holiday
6/24/2024	MONDAY			
6/25/2024	TUESDAY		Assignment II	
6/26/2024	WEDNESDAY			HODs meeting
6/27/2024	THURSDAY	Assignment - II		
6/28/2024	FRIDAY			Programme Assessment Committee meeting - IV
6/29/2024	SATURDAY			
6/30/2024	SUNDAY	****	****	Holiday
7/1/2024	MONDAY	Proctor meeting II		
7/2/2024	TUESDAY			
7/3/2024	WEDNESDAY			
7/4/2024	THURSDAY	Second sessional exams	Second sessional exams	
7/5/2024	FRIDAY			
7/6/2024	SATURDAY			
7/7/2024	SUNDAY			****
7/8/2024	MONDAY			
7/9/2024	TUESDAY	Second sessional practical	Second sessional practical	
7/10/2024	WEDNESDAY			HODs meeting
7/11/2024	THURSDAY			
7/12/2024	FRIDAY	Class Committee Meeting II		Departmental Advisory Board meeting - IV
7/13/2024	SATURDAY	****	****	Holiday
7/14/2024	SUNDAY	****	****	Holiday
7/15/2024	MONDAY		Class Committee Meeting II	
7/16/2024	TUESDAY	Submission of second sessional result to principal	Submission of second sessional result to Principal	
7/17/2024	WEDNESDAY	****	****	Moharram
7/18/2024	THURSDAY	Parents Teachers Meeting II		
7/19/2024	FRIDAY		Parents Teachers Meeting II	

7/20/2024	SATURDAY			
7/21/2024	SUNDAY	****	****	Holiday
7/22/2024	MONDAY	Improvement exam	Improvement exam	
7/23/2024	TUESDAY			
7/24/2024	WEDNESDAY			HODs meeting
7/25/2024	THURSDAY			
7/26/2024	FRIDAY			
7/27/2024	SATURDAY	****	****	Holiday
7/28/2024	SUNDAY	****	****	Holiday
7/29/2024	MONDAY			
7/30/2024	TUESDAY	Semester exam tentative	Semester exam tentative	
7/31/2024	WEDNESDAY			
8/1/2024	THURSDAY			
8/2/2024	FRIDAY			
8/3/2024	SATURDAY			
8/4/2024	SUNDAY	****	****	Holiday
8/5/2024	MONDAY			
8/6/2024	TUESDAY			
8/7/2024	WEDNESDAY			HODs meeting
8/8/2024	THURSDAY			
8/9/2024	FRIDAY			
8/10/2024	SATURDAY	****	****	Holiday
8/11/2024	SUNDAY	****	****	Holiday
8/12/2024	MONDAY			
8/13/2024	TUESDAY			
8/14/2024	WEDNESDAY			HODs meeting
8/15/2024	THURSDAY	****	****	Independence day
8/16/2024	FRIDAY			
8/17/2024	SATURDAY			
8/18/2024	SUNDAY	****	****	Holiday
8/19/2024	MONDAY			

8/20/2024	TUESDAY			
8/21/2024	WEDNESDAY			HODs meeting
8/22/2024	THURSDAY			
8/23/2024	FRIDAY			
8/24/2024	SATURDAY	****	****	Holiday
8/25/2024	SUNDAY	****	****	Holiday
8/26/2024	MONDAY	****	****	Krishna Jayanthi
8/27/2024	TUESDAY			
8/28/2024	WEDNESDAY			HODs meeting
8/29/2024	THURSDAY			
8/30/2024	FRIDAY			
8/31/2024	SATURDAY			

Table 2: Adherence Table for all the candidates admitted up to academic year 2023-2024

SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	% ADHERENCE
1	Commencement of 2 nd semester classes	8 th March 2024	8 th March 2024	YES	100%
2	1 st Internal assessment examination (Theory)	1 st to 6 th June 2024	1 st to 6 th June 2024	YES	100%
3	1 st Internal assessment examination (Practical)	13 th to 18 th June 2024	13 th to 18 th June 2024	YES	100%
4	2 nd Internal assessment examination (Theory)	1 st to 7 th Aug 2024	1 st to 7 th Aug 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	8 th to 13 th Aug 2024	8 th to 13 th Aug 2024	YES	100%
6	Last working day	-	10 th Oct 2024	YES	100%

7	Freezing of Internal assessment (IA) marks	-	2 nd Oct 2023	YES	100%
8	Commencement of University examination (2 nd)	-	6 th to 11 th Nov 2024	YES	100%
SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	% ADHERENCE
1	Commencement of 4 th semester classes	8 th March 2024	8 th March 2024	YES	100%
2	1 st Internal assessment examination (Theory)	1 st to 6 th June 2024	1 st to 6 th June 2024	YES	100%
3	1 st Internal assessment examination (Practical)	13 th to 18 th June 2024	13 th to 18 th June 2024	YES	100%
4	2 nd Internal assessment examination (Theory)	1 st to 7 th Aug 2024	1 st to 7 th Aug 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	8 th to 13 th Aug 2024	8 th to 13 th Aug 2024	YES	100%
6	Last working day	-	10 th Oct 2024	YES	100%
7	Freezing of Internal assessment (IA) marks	-	2 nd Oct 2023	YES	100%
8	Commencement of University examination (4 th)	-	6 th to 12 th Nov 2024	YES	100%

SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	%ADHERENCE
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1	Commencement of 5 th semester classes	8 th March 2024	8 th March 2024	YES	100%
2	1 st Internal assessment examination (Theory)	1 st to 6 th June 2024	1 st to 6 th June 2024	YES	100%
3	1 st Internal assessment examination (Practical)	13 th to 18 th June 2024	13 th to 18 th June 2024	YES	100%
4	2 nd Internal assessment examination (Theory)	1 st to 7 th Aug 2024	1 st to 7 th Aug 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	8 th to 13 th Aug 2024	8 th to 13 th Aug 2024	YES	100%
6	Last working day	-	10 th Oct 2024	YES	100%
7	Freezing of Internal assessment (IA) marks	-	2 nd Oct 2023	YES	100%
8	Commencement of University examination (5 th)	-	14 th to 20 th Nov 2024	YES	100%

SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	%ADHERENCE
1	Commencement of 7 th semester classes	8 th March 2024	8 th March 2024	YES	100%
2	1 st Internal assessment examination (Theory)	1 st to 6 th June 2024	1 st to 6 th June 2024	YES	100%
3	1 st Internal assessment examination (Practical)	13 th to 18 th June 2024	13 th to 18 th June 2024	YES	100%

4	2 nd Internal assessment examination (Theory)	1 st to 7 th Aug 2024	1 st to 7 th Aug 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	8 th to 13 th Aug 2024	8 th to 13 th Aug 2024	YES	100%
6	Last working day	-	10 th Oct 2024	YES	100%
7	Freezing of Internal assessment (IA) marks	-	2 nd Oct 2023	YES	100%
8	Commencement of University examination (7th)	-	14 th to 19 th Nov 2024	YES	100%

SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	%ADHERENCE
1	Commencement of 1 st & 3 rd semester classes	3 rd Oct 2023	3 rd Oct 2023	YES	100%
2	1 st Internal assessment examination (Theory)	11 th to 15 th Dec 2023	11 th to 15 th Dec 2023	YES	100%
3	1 st Internal assessment examination (Practical)	18 th to 22 nd Dec 2023	18 th to 22 nd Dec 2023	YES	100%
4	2 nd Internal assessment examination (Theory)	12 th to 16 th March 2024	12 th to 16 th March 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	19 th to 23 rd March 2024	19 th to 23 rd March 2024	YES	100%
6	Last working day	-	30 th April 2024	YES	100%

7	Freezing of Internal assessment (IA) marks	-	25 th April 2024	YES	100%
8	Commencement of University examination (3rd)	-	11 th to 14 th June 2024	YES	100%

SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	%ADHERENCE
1	Commencement of 4 th semester classes	3 rd Oct 2023	3 rd Oct 2023	YES	100%
2	1 st Internal assessment examination (Theory)	11 th to 15 th Dec 2023	11 th to 15 th Dec 2023	YES	100%
3	1 st Internal assessment examination (Practical)	18 th to 22 nd Dec 2023	18 th to 22 nd Dec 2023	YES	100%
4	2 nd Internal assessment examination (Theory)	12 th to 16 th March 2024	12 th to 16 th March 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	19 th to 23 rd March 2024	19 th to 23 rd March 2024	YES	100%
6	Last working day	-	30 th April 2024	YES	100%
7	Freezing of Internal assessment (IA) marks	-	25 th April 2024	YES	100%
8	Commencement of University examination (4 th)	-	3 rd to 7 th June 2024	YES	100%

SL.NO	NAME OF THE EVENT	TARGET DATE	CONDUCTED DATE	ADHERENCE	%ADHERENCE
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1	Commencement of 6 th semester classes	3 rd Oct 2023	3 rd Oct 2023	YES	100%
2	1 st Internal assessment examination (Theory)	11 th to 15 th Dec 2023	11 th to 15 th Dec 2023	YES	100%
3	1 st Internal assessment examination (Practical)	18 th to 22 nd Dec 2023	18 th to 22 nd Dec 2023	YES	100%
4	2 nd Internal assessment examination (Theory)	12 th to 16 th March 2024	12 th to 16 th March 2024	YES	100%
5	2 nd Internal assessment examination (Practical)	19 th to 23 rd March 2024	19 th to 23 rd March 2024	YES	100%
6	Last working day	-	30 th April 2024	YES	100%
7	Freezing of Internal assessment (IA) marks	-	25 th April 2024	YES	100%
8	Commencement of University examination (6th)	-	3 rd to 10 th June 2024	YES	100%

2.2 Teaching-Learning Processes (110)
Total Marks 110.00

2.2.1 Initiatives in teaching and learning process (25)

Institute Marks : 25.00

Pedagogical Initiatives

The following Pedagogical initiatives are being practiced to increase students' engagements and learning outcomes of students.

ICT tools:

Apart from chalk and board method, ICT tools such as projectors, TVs, computers, laptop, animations, etc are used to engage learners effectively and enhance learning outcome of students with the demonstration of real time examples in the classrooms and laboratories. In addition, innovative teaching methods like quiz, role play, google classroom, youtube videos, seminar, lecture notes using NPTEL videos, etc., are also employed in the classroom.



Figure 1: ICT Tools Enabled Classrooms

Interfacing students with industrial practices:

The students could get experience of learning real world examples as they are engaged in the following ways in connection with industries.

- Industrial visits/ Hospital visits
- In-plant Training
- Internship
- Industrial projects
- MoU's with industries and subsequent engagement of students
- Guest lectures/ Webinars conducted by industrial persons.

Guest lectures/ Webinars

In order to bridge the gap between academic and industry, the students are encouraged to attend guest lecture and webinars on recent trend. The industrial persons are invited to deliver the lecture on particular topic in the syllabus.

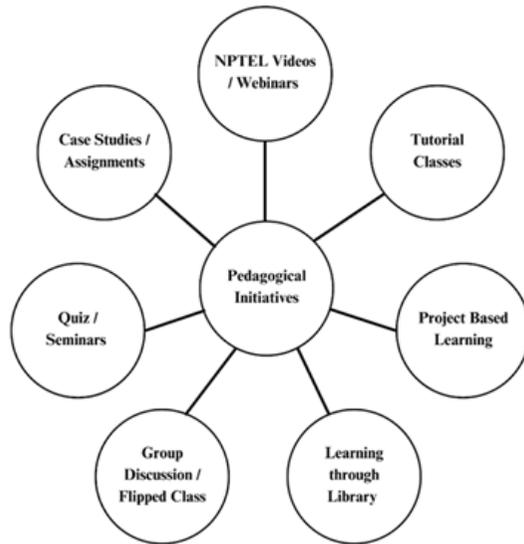


Figure 2: Pedagogical Initiatives

Group Discussions:

This involves discussion among a group of students to assess the application of various concepts. By discussing among themselves, they gain better perspective about the merits & demerits of the various concepts.

Flipped Class(for tutorial class/ assignments/ industrial case studies):

The faculty post the materials and publish the course plan in Google Classroom. The students are encouraged to prepare for the class before a topic is dealt in the class. The teacher plays the role of the facilitator and helps the students to understand any complex concepts through small group discussions.

Remedial courses

Remedial coaching is given to the average and the slow learners by taking extra coaching classes for slow learners during evening hours, prior to internal exams and end of semesters.

Learning through Library:

To augment Teaching - Learning process, modernized library resources are used in different ways for both students and staff members. The students are allotted separate session in the timetable as library period to get benefitted. The teachers and students are permitted to access the library books, journals and magazines.

Enhancing students learning by engaging with professional societies:

The students are favoured by enabling them in participation of activities of professional societies and further they are encouraged in doing Project/internship.

Methodologies to support slow learners and encourage bright students:

The process of identifying slow learners and bright students is presented below and followed by the methodologies descriptions.

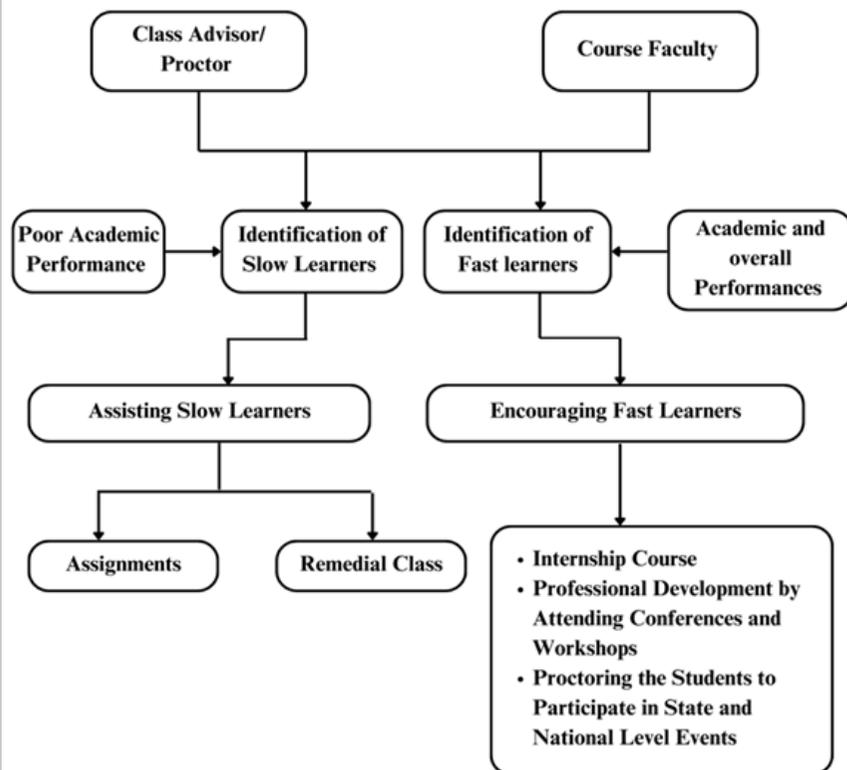


Figure 3: Process of identifying slow learners

The College has provided the following facilities for career guidance:

- Placement and training cell with Placement Officer and Trainer provides training from the beginning of the first year.
- Online test, mock interviews, group discussions are given to the students, making them ready for placement.
- Inviting companies for presentation and conduct of campus placements.
- Higher Education Cell provides way to prepare for Competitive exam and GPAT.
- Entrepreneurship Development Cell motivates the students to become entrepreneurs through regular Entrepreneurship Awareness Camp programs and thus make them job providers rather than job seekers.

Encouragement for the bright students

Fast learners are encouraged to utilize every opportunity that enhances their potential. This helps them to improve their standard of excellence.

The bright students are encouraged to attend conferences/ seminars, industrial projects and internship.

Methodologies to encourage the slow learners

The slow learners are supported by the faculty members in the following ways:

- Remedial classes for slow learners
- Interaction of Parents of slow learners

- Counselling by proctors
- Peer learning
- Providing simplified learning materials



Figure 4: Slow learner's tutorial session

Quality of classroom teaching

Clean and spacious classrooms with requisite furniture, boards, UPS connections, etc, are facilitated for enabling the right eco-system to impart quality education. The faculty members adopt following Teaching & Learning methodologies to create the effective learning ambiance for students their classrooms:

a) Integration of technology with classroom: In order to effectively engage students and improve the quality of teaching-learning process, faculty members use video lectures, online resources and ICT tools(Projector, Laptop/ Computer, software, etc) along with conventional black board teaching method.

b) Support for active learning: Faculty members guide students to be active learner by providing course handouts and class notes (digital course contents) well in advance. The students are engaged in classroom activities regularly beyond listening lecture by means of quizzes, online tests, seminars, tutorials/ assignments. Students are effectively involved in the classroom by presenting the learning contents of previous class session and summarizing briefly at the end of the class in a random manner in-order to demonstrate their personalized learning experience.

c) Enhancing quality of teaching through industrial experience: The faculty members are encouraged to undergo FDP and online courses (NPTEL) to improve their pedagogical skills from time to time. Further they are involved to visit industries and learn the industrial practices.

Conduct of experiments:

The process of conducting experiments in a laboratory is explained in the following steps:

- The lab manuals are prepared well before the commencement of the semester as prescribed in the syllabus.
- Lab plan with the outcome and assessment is prepared well in advance and circulated to the students.
- Each group will do the experiments separately in order to make them understand and conduct the laboratory experiment and to get individual attention from the faculty.

- The students record the experimental values in their observation after completing the relevant calculations; the students submit the same for evaluation.

Projects

Doing projects is the best approach to become an expert in a subject. Students have practical experience and a deeper comprehension of the subject matter through projects. Students will have a deeper understanding of their subject by working on a project.

- Obtain real-world experience
- A chance to demonstrate their abilities
- Instill responsibility, teamwork, and communication skills.
- Guest Speakers, Workshops, and Seminars

Sessional Examinations in the laboratory:

The students' performance in the laboratory is assessed experiment-wise and viva-voce will be conducted.

- Student's performance in each laboratory experiment is evaluated based on the parameters like preparation, execution of experiments, results and viva-voce.
- Sessional I and II lab examinations are conducted to assess the knowledge of the student and calculate the outcome attainment.
- The final practical examination is conducted for 3-hour duration at the end of the semester.

Student's feedback on Teaching Learning and action taken

The processes for collecting students' feedback to improve the classroom delivery, teaching learning process and further to address the diverse learners' needs are given below:

- Class committee feedback
- Mid-semester feedback
- Feedback at the end of the course
- Informal feedbacks collected by Principal/ HoDs

Feedbacks on teaching learning process during middle of the semester and at the end of every semester are collected from students and accordingly HoDs and Principal discuss on it for the betterment of students. Feedback regarding each and every course is collected from the students at the end of every semester and suitable suggestions by students are taken into account and the necessary changes/modifications are accommodated by revising the curriculum.

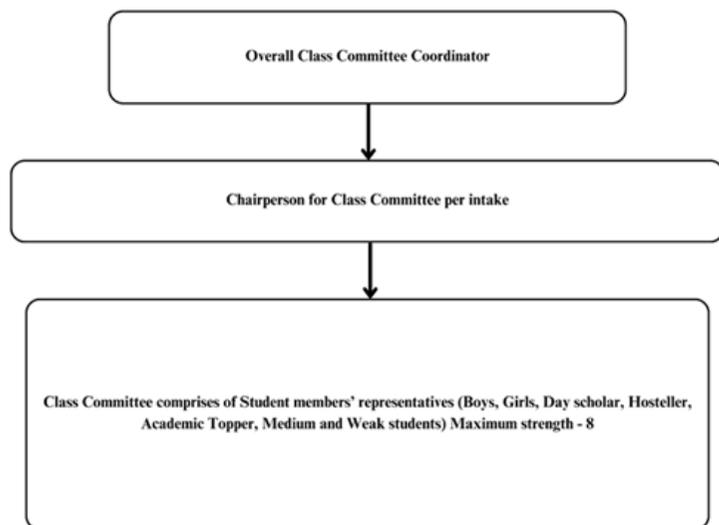
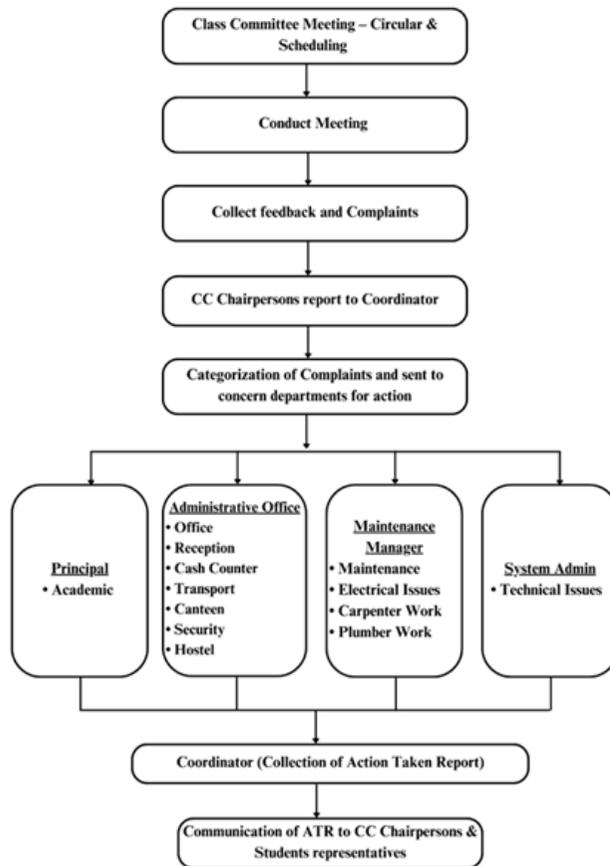


Figure 5: Structure of Class Committee**Figure 6: Process flow for Class Committee Meeting****Effectiveness of the Process**

The effectiveness of the process is ensured through

- Class Committee Meetings
- Academic Audit

A course committee is formed comprising of the entire faculty handling the course, with the senior most faculty being the course coordinator. The course committee meets before the start of the course and after each sessional examinations to prepare the lesson plan, decides the portions for sessional exams, assignment patterns and periodically review the attainment of COs.

The class committee meeting comprises of students, all the course handling faculty members and HoDs. The feedback is obtained from the students on syllabus coverage, content delivery, assessment and evaluation and any other matter related to academics as well as co-curricular and extra-curricular activities.

An Academic Audit is conducted periodically in a semester to audit the course file. The course file consists of lesson plan, course material prepared for that particular course based on the lesson plan, tutorial problems for analytical courses and contents beyond the syllabus, assignments, sample sessional exam answer papers and question papers.

2.2.2 Quality of internal semester question papers, assignments and evaluation (10)

Institute Marks : 10.00

Quality of internal semester question papers:

The structure of the internal assessment tests consists of

- Sessional examinations – 2
- Assignment
- Written Assignment -1
- Quiz- 1
- Seminar - 1

The process for preparing question paper for internal assessment tests is described below:

First sessional examination is conducted after completing half of the syllabus and second sessional examination is conducted after completing the remaining syllabus. The sessional exams are conducted for a maximum of 75 marks. The duration of the exam is three hours and question papers are set to make the student to learn time management.

The faculty members prepare questions according to

- The curriculum and assessment frameworks.
- Course Outcomes (CO) in the syllabus.
- Different levels of Bloom's Taxonomy

The department HoD's/Principal along with exam committee faculty members will check the quality of Question papers, Bloom's Taxonomy Level and CO's coverage and compliance. The course handling faculty will submit the Question Paper to HoDs for approval. The HoD will assess the quality of the question papers in terms of syllabus coverage, application of Bloom's Taxonomy and relevance to CO's. To ensure confidentiality and security the examination coordinators are nominated.

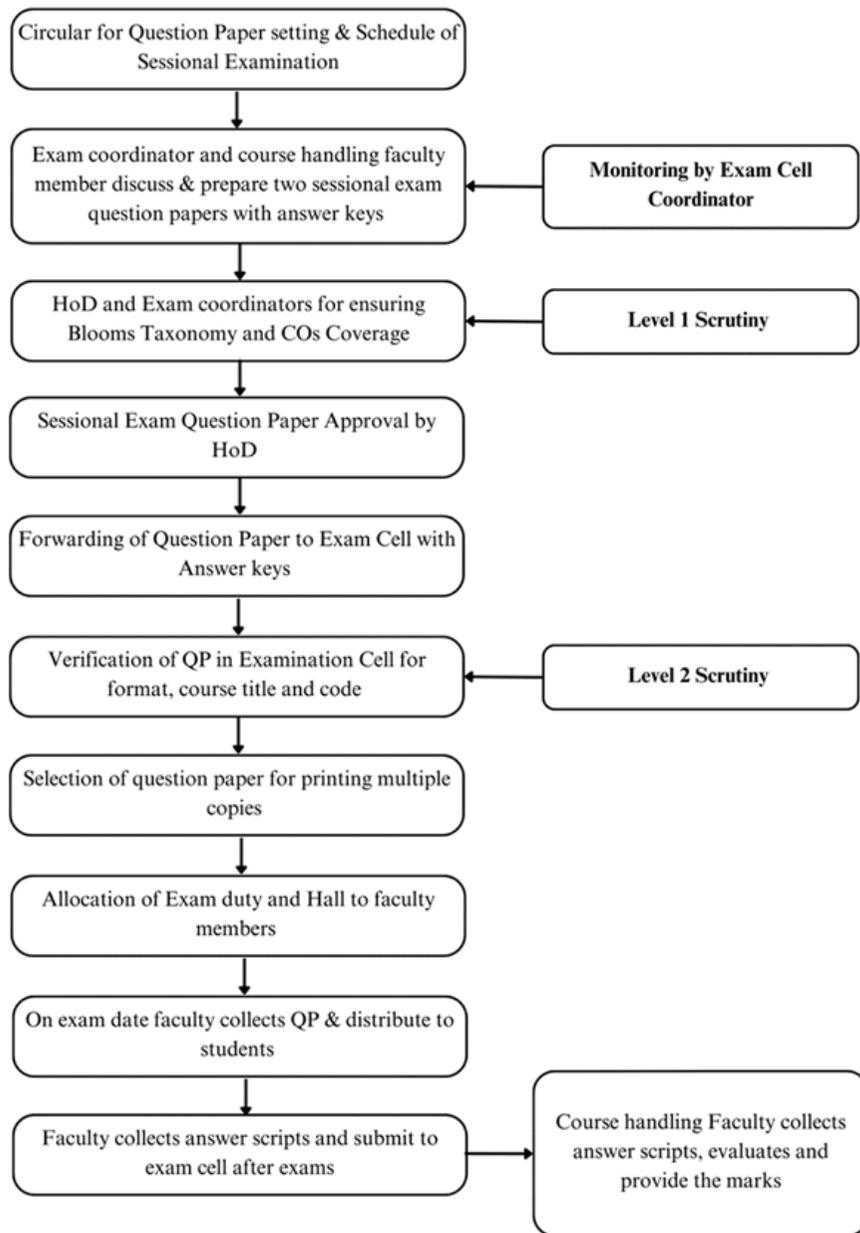


Figure 1: Sessional examination test question paper setting and scrutiny process

Examination committee will collect two sets of question paper with answer key and submit the same to examination cell in a sealed cover. Exam Coordinators Meetings and Internal audits are carried out to identify areas for improvement. Audit teams consisting of senior faculty members verify the quality of question papers and the quality of assessment (answer booklet) after every sessional examination.

Process to ensure questions from outcomes/learning levels perspective:

- While setting the question papers, faculty members ensure the Course Outcomes coverage and knowledge levels in the questions with relevance to the course outcomes learning levels.
- Scrutiny team checks the quality of the Question paper with respect to the coverage of COs and blooms taxonomy levels.
- Academic Audit committees also check the quality of the Question papers.
- Based on the marks scored by the students, CO attainment level is calculated to understand the learning level of the student.
- After this process, a review is conducted by HoD to find the level of attainment of Course Outcomes.
- If the attainment level is not satisfactory, then the subject handling faculty member is advised to handle separate classes for slow learners.

Evidence of COs coverage in sessional examination:

The evidence of Course Outcomes coverage in the sessional exam question papers is ensured during the Question Paper scrutiny process by HoD with exam committee. Further the COs coverage is also verified during the Academic Audit which is scheduled once in a semester. Sample Question paper is shown below to exhibit the COs coverage.

 NANDHA COLLEGE OF PHARMACY, ERODE-52 (Affiliated to The Tamilnadu Dr.M.G.R.Medical University, Chennai)		
B.Pharm	Sessional Exam I	Sep-24
IV Year	Semester 7	
BP701T. INSTRUMENTAL METHODS OF ANALYSIS		
Time : 3 Hours	Maximum Marks : 75	
Bloom's Taxonomy Knowledge level		
R - Remembering (K1)	U - Understanding (K2)	Ap - Applying (K3)
An - Analysing (K4)	E - Evaluating (K5)	C - Creating (K6)

General instructions to the Candidates

1. Candidates are instructed to answer the question as per Bloom's Taxonomy knowledge level (K1 to K6)
2. Candidates are strictly instructed not to write anything in the question paper other than their register number
3. Candidates should search their pockets, desks and benches and handover to the Hall Superintendent/Invigilator if any paper, book or note which they may find therein as soon as they enter the examination hall
4. Candidates are not permitted to bring electronic watches with memory, laptop computers, personal systems, mobile phones, cameras, recording systems or any other gadget/device/object that would be of unfair assistance to him/her
5. Corrective measures as per NCP examination policies will be imposed for malpractice in the hall like copying from any papers, books or notes and attempting to elicit the answer from neighbours

COURSE OUTCOMES: After successful completion of this course, the students should be able to	
CO1	Understand the interaction of matter with Electromagnetic radiation and its applications in drug analysis
CO2	Understand the different types of analytical techniques and their applications
CO3	Describe the principle of chromatographic separation and analysis of drugs
CO4	Understand the different types of Chromatographic separation techniques and Applications in drug analysis
CO5	Perform quantitative and qualitative analysis of Drugs using various analytical instruments

Part - A (Answer any TWO questions) - 2x10=20 Marks		CO	KL	Marks
A1	Write the principle and instrumentation of UV spectroscopy	C701.1	K2	10
A2	Explain the principle involved in fluorimetric analysis. Explain the instrumentation of spectrofluorimeter.	C701.1	K1	10
A3	Describe the instrumentation of infrared spectrophotometer.	C701.2	K1	10
Part - B (Answer any SEVEN questions) - 7x5=35 Marks				
B1	Define Beer's law and explain the deviations of Beer's law.	C701.1	K1	5
B2	Write the vibrational principle involved in IR spectroscopy.	C701.2	K2	5
B3	State the principle and applications of nepheloturbidimetry in pharmacy.	C701.2	K1	5
B4	Define quenching. Write the various factors affecting the fluorescence intensity.	C701.1	K1	5
B5	Explain the sample handling techniques of IR spectroscopy.	C701.2	K1	5
B6	Discuss the interferences involved in atomic absorption spectroscopy.	C701.2	K2	5
B7	Explain the various factors influencing the vibrational frequency in IR spectroscopy.	C701.2	K1	5
B8	Write the instrumentation of flame photometry.	C701.2	K2	5
B9	Write the applications of UV spectroscopy.	C701.1	K2	5
Part - C (Answer ALL questions) - 10x2=20 Marks				
C1	Define Red shift and Blue shift.	C701.1	K1	2
C2	What is mean by $A_{1\%1\text{cm}}$.	C701.1	K2	2
C3	Discuss on Finger print region.	C701.2	K1	2
C4	Define Self quenching.	C701.1	K1	2
C5	Use of Monochromator.	C701.1	K3	2
C6	State Auxochrome and its example.	C701.1	K1	2
C7	Report Nujol technique.	C701.2	K3	2
C8	Define Phosphorescence.	C701.1	K1	2
C9	Tell about Nearest glower.	C701.2	K1	2
C10	Write Hookes law.	C701.2	K2	2

Figure 2: Sample Sessional Question Paper**Quality of assignments and relevance to COs:**

- Written Assignments/ Quiz/ Seminars are given to the students to achieve the outcomes of the courses to promote the self-learning.
- Every semester, one written assignment, quiz and seminar are given to the students.
- The assignments are relevant to the curriculum and relevant to the course outcomes.
- For quiz, CO-1, CO-2 are covered, for written assignment, CO-3, CO-4 are covered and CO-5 is covered for seminar.
- The assignment marks are evaluated and it forms a part of the internal mark component.

NANDHA COLLEGE OF PHARMACY, ERODE
ASSIGNMENT EVALUATION FORM

NAME OF THE STUDENT: YAMINI DATE: 19.12.24
COURSE AND YEAR OF THE STUDY: B. PHARM I SEMESTER
ASSIGNMENT TITLE: PHARMACOPOEIA

EVALUATION CRITERIA:

Criteria	Maximum Marks	Marks Awarded
Relevance with the content	2	1.5
Use of Source material	2	1
Organization and Mechanical accuracy	2	1.5
Cohesion and Coherence	2	2
Language, Proficiency and Timely submission	2	2
Total Score	10	08

COMMENTS (IF ANY):
NAME OF THE FACULTY: PONITHAS
SIGNATURE OF THE FACULTY: [Signature]

		
NANDHA COLLEGE OF PHARMACY, ERODE-52 (Affiliated to Dr.M.G.R Medical University, Chennai)		
B.PHARM	ASSIGNMENT no. 1	March-2025
YEAR: 01	SEMESTER- I	
PHARMACEUTICS – I (BP103T)		
Date Assigned: 05.12.24 , Date Submitted : 17.12.24		Maximum Marks - 25
Bloom's Taxonomy Knowledge Level		
R – Remembering (K1)	U – Understanding (K2)	Ap- Applying (K3)
An – Analysing (K4)	E – Evaluating (K5)	C – Creating (K6)

COURSE OUTCOMES: After successful completion of this Assignment, the student should be able to

C103.1	The Definition & Scope of different pharmacopoeia currently in use and especially a detailed information about Indian Pharmacopoeia
--------	---

Answer all Questions		CO	KL	Marks
1	What is pharmacopoeia & what is its primary purpose in the field of Pharmacy	(C103.1)	(K2)	2
2	Identify two components typically included in a pharmacopoeial monograph.	(C103.1)	(K1)	2
3	Define the term 'standardization' as it relates to pharmacopoeia.	(C103.1)	(K1)	2
4	List two primary objectives of Indian Pharmacopoeia	(C103.1)	(K1)	2
5	How the Indian Pharmacopoeia published?	(C103.1)	(K1)	2
6	What is the significance of monographs in pharmacopoeia	(C103.1)	(K2)	5
7	Discuss the importance of IP in the context of public health and safety	(C103.1)	(K2)	5

Prepared By

[Signature]

Verified by

[Signature]

NANDHA COLLEGE OF PHARMACY, ERODE
SEMINAR PRESENTATION EVALUATION FORM

NAME OF THE STUDENT: CYRIL ROSHINI T P DATE: 30-08-2024
 COURSE AND YEAR OF THE STUDY: B. PHARM IV SEMESTER
 SEMINAR TITLE: METAL HYDRIDE REDUCTION REACTION

EVALUATION CRITERIA

Criteria	Maximum Marks	Marks Awarded
Literature Survey and Depth of Knowledge	10	9
Presentation Skills (Clarity, Voice, Confidence)	10	8.5
Time Management and Structure	5	3.5
Response to Questions	5	4
Total	30	25

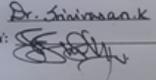
COMMENTS (IF ANY):
 NAME OF THE FACULTY: Dr. Srinivasan
 SIGNATURE OF THE FACULTY: 

Figure 3: Sample Assignments and Seminar Evaluation Sheets

NANDHA COLLEGE OF PHARMACY, ERODE-52 (Affiliated to Dr.M.G.R Medical University, Chennai)		
B. PHARM - MARCH 2025 BATCH		
FIRST YEAR/SEMESTER I		
HUMAN ANATOMY AND PHYSIOLOGY- I (BP101T)		
COURSE 4		
QUIZ PROGRAM CONDUCTED ON 02.02.2024		Maximum Marks - 20
Bloom's Taxonomy Knowledge Level		
R – Remembering (K1)	U – Understanding (K2)	Ap- Applying (K3)
An – Analysing (K4)	E – Evaluating (K5)	C – Creating (K6)
COURSE OUTCOMES: After successful completion of this quiz competition, the student should be able to		
C103.1	Identify the major components of blood and lymphatic system.	

SNO	Answer all Questions	CO	KL	Marks
1.	The _____ is the outermost meninx, and forms supportive and protective partitions between some portions of the brain. a. Duramater b. Arachinoid mater c. Piamater d. Denticulate mater	(C101.4)	(K1)	2
2.	The smallest pair of cranial nerves that arise from the midbrain and carry motor impulses to the superior oblique muscles of the eye are the _____ nerves. a. Trochlear b. Abducens c. Facial d. Optic	(C101.4)	(K1)	2
3.	Which pair of cranial nerves are mixed nerves that supply the chest and abdomen with autonomic nerves? a. Trigeminal nerves b. Accessory nerves c. Vagus nerves d. Hypoglossal nerves	(C101.4)	(K1)	2
4.	Which of these nuclei is not located entirely within the medulla oblongata? a. cardiac center b. vasomotor center c. respiratory center d. reticular formation	(C101.4)	(K1)	2
5.	The portion of the brain involved in understanding speech and using words is located in the _____ of the cerebrum. a. frontal lobe b. parietal lobe c. occipital lobe d. temporal lobe	(C101.4)	(K1)	2

6.	What kind of peripheral nerve fiber carries motor impulses outward to smooth muscles and glands of internal organs? a. somatic efferent fibers b. visceral efferent fibers c. somatic afferent fibers d. visceral afferent fibers	(C101.4)	(K1)	2
7.	Partial or complete inability to coordinate voluntary movements is also referred to as _____. a. Aphasia b. Ataxia c. Apraxia d. Neuralgia	(C101.4)	(K1)	2
8.	The cell body of all sensory neurons is located within the: a. Brain b. spinal cord c. dorsal root ganglion d. dorsal gray horn	(C101.4)	(K1)	2
9.	Parkinson disease tremors are the result of which condition? a. dopamine excess b. norepinephrine deficiency c. epinephrine excess d. dopamine deficiency	(C101.4)	(K1)	2
10.	The connection between the third and fourth ventricle is called the _____. a. interventricular foramen b. cerebral aqueduct c. foramen of Monro d. hypothalamus	(C101.4)	(K1)	2

Figure 4: Sample Quiz Question Paper

9 of 10 points Release score

QUIZ- B.PHARM I - SEMESTER (HUMAN ANATOMY AND PHYSIOLOGY - I)

COURSE 4

PERIPHERAL NERVOUS SYSTEM - QUIZ

The respondent's email (gowrishankar.sgs333@gmail.com) was recorded on submission of this form.

NAME AND COURSE
/ 0

Gowrishankar.S (B.Pharm 1st Semester)

Add individual feedback

1. The _____ is the outermost meninx, and forms supportive and protective partitions between some portions of the brain.

1 / 1

a) Duramater ✓

b) Arachnoid mater

c) Piamater

d) Denticulate mater

Add individual feedback

4. Which of these nuclei is not located entirely within the medulla oblongata?

1 / 1

a) cardiac center

b) vasomotor center

c) respiratory center

d) reticular formation ✓

Add individual feedback

5. The portion of the brain involved in understanding speech and using words is located in the _____ of the cerebrum.

0 / 1

a) frontal lobe

b) parietal lobe

c) occipital lobe

d) temporal lobe ✗

Correct answer

b) parietal lobe

Add individual feedback

6. What kind of peripheral nerve fiber carries motor impulses outward to smooth muscles and glands of internal organs?

8. The cell body of all sensory neurons is located within the:

1 / 1

a) Brain

b) spinal cord

c) dorsal root ganglion ✓

d) dorsal gray horn

Add individual feedback

9. Parkinson disease tremors are the result of which condition?

1 / 1

a) dopamine excess

b) norepinephrine deficiency

c) epinephrine excess

Figure 5: Screenshot of Google Form for quiz conducted

The step-by-step process of identification of titles/area, allocation, monitoring and evaluations of projects are explained below.

- All the students shall undertake a project under the supervision of faculty and submit a report. Principal assigns guides for final year students. The final year students do projects with a team size not exceeding 5 members per group. The faculty members are assigned as project guides on their respective specialization. Students confirm their project titles in consultation with guides.
- The Principal constitutes a project committee which consists of senior faculty members to evaluate the progress of the projects and performance of the students as per the guidelines specified in the regulations.
- Project guides facilitate students to identify the problem(s) by literature review/ industrial field survey, formulate methodology to be adopted and time line to complete the project. The above points are ensured during evaluation in zeroth review.
- The continuous monitoring and evaluation are carried out with periodic reviews. The end semester evaluation includes the objectives of work done, methodology adopted in project, presentation of work and viva voce.
- Students done quality projects are encouraged to present/publish their work in the national/international conferences and journals.
- The internal and external examiner appointed by the university shall evaluate the project at the time of the university practical examination. Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria.

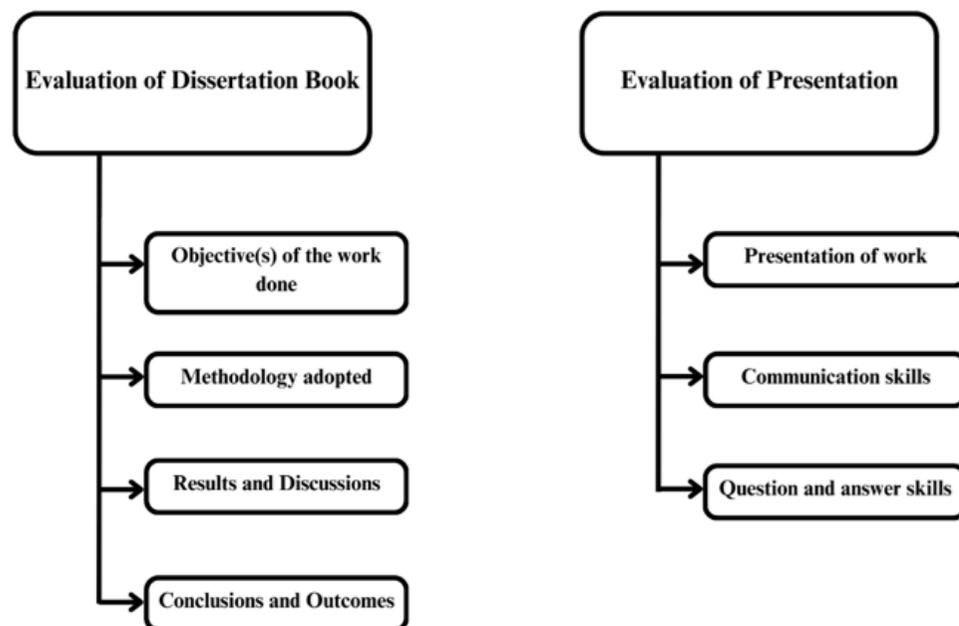


Figure 1: Criteria for project evaluation

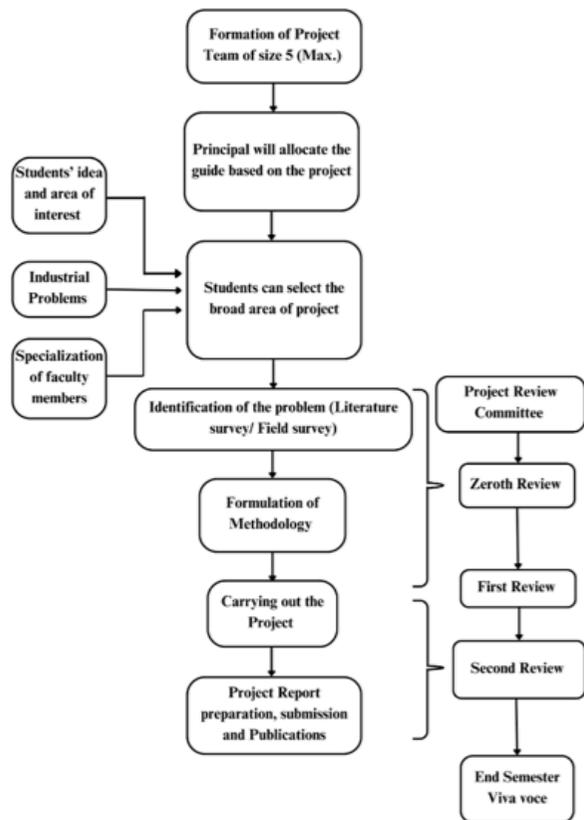


Figure: Process of projects allocation methodology, monitoring and evaluation

Figure 2: Process of Project allocation methodology, monitoring, and evaluation

Table 1: List of Students Project

B. PHARM PROJECT LIST ACADEMIC YEAR 2023-2024						
BATCH NO	REGISTR NUMBER	STUDENT NAME	PROJECT TITLE	GUIDE NAME	TYPE OF PROJECT	PO MAPPING
1	561930047	NANDHINI D	SHELF LIFE EVALUATION OF ANTI-LIPIDEMIC DRUGS	MRS. S SASIKALA	PHARMACEUTICAL ANALYSIS	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO2
	561930090	THARANEESHWARAN M				
	561930092	VEERAMANI P				
	561930098	VIVITHA S				
2	561930076	D P SEFFRIN	SYNTHESIS OF THIAZOLE SCHIFF BASE AND EVALUATION OF ANTI-BACTERIAL ACTIVITY	MRS. C SELVINTHANUJA	PHARMACEUTICAL CHEMISTRY	
	561930083	K SRIDHAR				
	561930086	S SUDHARSAN				
3	561930025	JEGATHEESWARI T	FORMULATION, COMPARISON AND ANTIMICROEXPLORING FEASIBILITY OF OF NATURAL POLYSACCHARIDES AS A CARRIER FOR SOLUBILITY AND BIOAVAILABILITY AND ENHANCEMENT OF ROSUVASTATIN CALCIUM: COMPARATIVE STUDYBIAL EVALUATION OF POLYHERBAL HANDWASH	DR. K P MOHANRAJ	PHARMACEUTICS	
	561930026	JENAARDHANHAN A G				
	561930029	KATHEEJA A				
	561930031	KAVIN C				
4	561930061	RAMYA S	REVIEW ON NANO DRUG DELIVERY: PERSPECTIVE MECHANISM IN CANCER THERAPEUTICS	DR. S TAMIZHARASI	PHARMACEUTICS	
	561930001	P AARTHI				
	561930002	M ABOORVA				
	561930003	G AKSHAYA				
	561930011	S DHANAPRIYA				

5		GOKUL A	COMPARATIVE ANALYSIS OF ASCORBIC ACID AND ETHANOLIC LEAVES EXTRACT OF PSIDIUM GUAJAVA AND ITS ANTI-BACTERIAL ACTIVITY	MS. E MANICKAVALLI	PHARMACEUTICAL CHEMISTRY
		JOTHINATHAN G			
		SRUTHI S			
6	561930016	GIRIDHARAN T	EVALUATION OF CNS EFFECTS OF ALPHA LINOLENIC ACID IN EXPERIMENTAL ANIMAL MODEL	DR. S HAJASHEREIF	PHARMACOLOGY
	561930020	HANWAR NIYAZ H			
	561930021	HARIKUMAR K			
	561930023	HARITHA N			
	561930052	PAVINESH KUMAR K			
7		ELAMATHI S	MUCOADHESIVE BUCCAL FILM AGAINST ORAL DISEASE	DR.K.KAMALAKANNAN	PHARMACEUTICAL BIOTECHNOLOGY
	561930027	JOKEE C			
8	561930048	NISHANTH M	SHELF LIFE EVALUATION OF ANTI-LIPIDEMIC DRUGS	MRS. S SASIKALA	PHARMACEUTICAL ANALYSIS
9	561930036	LOKESHKUMAR C	FORMULATION AND EVALUATION OF POLYHERBAL SHAMPOO	DR. R DURAISAMI	PHARMACOGNOSY
	561930055	PRADEEP GOKUL B			
	561930037	LOKESHWARAN M			
	561930071	SANTHOES KUMAR S			
10	561930057	M PRAVEEN SELVAM	DEVELOPMENT, CHARACTERIZATION OF VITEX NEGUNDO SILVERNANOPARTICLE INCORPORATED IN GEL AND ITS ANTIMICROBIAL ACTIVITY	DR. P AMSA	PHARMACEUTICS
	561930066	M SABESH			
	561930069	M SANGEETHA			
	561930077	K SHRUTHIPRIYA			
	561930078	S SIVASAKTHI			

PO1,
PO2,
PO3,
PO4,
PO5,
PO6,
PO7,
PO8,
PO9,
PO10,
PO11,
PSO1,
PSO2

11	561930044	MOHAMED NIHAS K	FORMULATION AND EVALUATION OF DOMPERIDONE TRANSDERMAL PATCHES OF POLYHERBAL SHAMPOO	DR.R SUMATHI	PHARMACEUTICAL BIOTECHNOLOGY
	561930059	RABERT SNEHAN			
	561930082	SREEJA D			
	561930087	SUNDARAMOORTHIS M			
12	561930046	MUSARAFP M	A CROSS SECTIONAL STUDY OF KNOWLEDGE, ATTITUDE AND PRACTICE OF PHARMACY STUDENTS REGARDING THE USE OF ANTIBIOTICS	MRS. A CHARUMATHI	PHARMACY PRACTICE
	561930051	PARTHASARATHI B			
	561930093	VENUGOPAL N			
13	561930049	NOORMOHAMED S	FABRICATION AND VALUATION OF POLYHERBAL SOAP	MRS.S SAMEEMA BEGAM	PHARMACOGNOSY
	561930050	PARIMALA M			
	561930081	SOUNDHARAN M			
14	561930039	MANIKANDAN M	EVALUATION OF ANALGECIS AND ANTI-INFLAMMATORY ACTIVITY OF VALLARAI KALPAM	DR.V LALITHA	PHARMACOLOGY
	561930064	ROJA R			
	561930065	SABARI ARAVINTHAN P			
	561930091	THIRUMOORTHIR			
	561930097	VINU P			
15	561930041	MASIMALAIYAN M	SYNTHESIS, CHARACTERIZATION INSILICO STUDY OF SCHIFF BASE FROM 2 - AMINOPYRIDINE	DR.K SRINIVASAN	PHARMACEUTICAL CHEMISTRY
	561930095	VIGNESH R			
	561930008	BABU R			
16	561930004	ANANDHAN D	SYNERGISTIC GASTRO-PROTECTIVE EFFECT OF ETHANOLIC EXTRACT OF EUPHORBIA HITA AND HONEY IN AN EXPERIMENTAL RODENT MODEL OF GASTRIC ULCER	DR. S SENGOTTUVELU	PHARMACOLOGY
	561930005	ANGELIN STAFFIN S			
	561930009	CHELLA PRAKASH C			
	561930013	DHEEBHENTHIRAN ATH D			
	561930060	RAJASIMMAN V			
17	561930010	CRISPIN NANCY TIRKEY	FORMULATION AND EVALUATION OF FRAGARIA ANANASSA EXTRACT BASED HERBAL GEL FOR ANTI-BACTERIAL ACTIVITY	MR. J THIRUMARAN	PHARMACEUTICS
	561930053	N PON LUCKWIN			
	561930056	A PRASANTH			
	561930058	V PRIYADHARSHINI			
18	561930024	JANANI S	DESIGN, SYNTHESIS AND IN-VITRO EVALUATION OF 1,3,4-THIADIAZOLE	DR. T PRABHA	PHARMACEUTICAL ANALYSIS
	561930030	KATHIRVEL V			

	561930038	MANEESHA V R				
	561930042	MATHANKUMAR S				
19	561930073	SATHYA R	ESTIMATION OF CAFFEINE IN VARIOUS FORM BY UV SPECTROSCOPY	DR. M JAGADEESWARAN	PHARMACEUTICAL ANALYSIS	
	561930079	SNEHA A				
	561930080	SOUNDAR V				
	561930094	VIGNESH M				
20	561930014	DHIVYABHARATHI R	EXPLORING THE ANTIMICROBIAL POTENTIAL OF THESPESIA POPULANEA LEAF AND BARK EXTRACT IN OINTMENT FORMULATION	DR. A SUMATHI	PHARMACEUTICS	
	561930015	ELAVARASAN K S				
	561930018	GOKULAKANNAN S				
	561930019	GOKULRAJ S				
	561930022	HARISH R				
21	561830008	ARUN V	ESTIMATION OF TANNINS AS TANNIC ACID IN AYURVEDIC FORMULATION (TRIPHALA TABLET) BY UV SPECTROMETRY	DR. K SRINIVASAN	PHARMACEUTICAL CHEMISTRY	
22	561930067	SAKTHIVEL P	FABRICATION AND VALUATION OF POLYHERBAL SOAP	MRS.S SAMEEMA BEGAM	PHARMACOGNOSY	
	560020504094	NAVEENKUMAR V				
23	560020504092	BARATH M	CROSS SECTIONAL STUDY OF KNOWLEDGE, ATTITUDE AND PRACTICE OF PHARMACY STUDENTS REGARDING THE USE OF ANTIBIOTICS	MRS. A CHARUMATHI	PHARMACYPRACTICE	
	560020504095	PAVITHRA P				

24	561930070	A K SANJAY	SYNTHESIS OF THIAZOLE SCHIFF BASE AND EVALUATION OF ANTI-BACTERIAL ACTIVITY	MRS. C SELVINTHANUJA	PHARMACEUTICAL CHEMISTRY	
25	561930089	SURENDRAN E	SYNTHESIS, CHARACTERIZATION AND INSILICO STUDY OF SCHIFF BASES FROM 2-AMINOPYRIDINE	DR.K SRINIVASAN	PHARMACEUTICAL CHEMISTRY	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11.

Table 2: List of Project Publication Details

S.NO	PROJECT TITLE	AUTHOR DETAILS	PUBLICATION DETAILS
1	Integrating herbal components into pharmaceutical formulations for hair woes	J. Dhanasekar, S Tamizharasi , J. Senthil, J. Saravanan, K. Sibi, P. Mohan Kumar, R. Manoj and T. Prabha	Annals of Phytomedicine 13(1): 167-178, 2024
2	Discovering the epigenetic pathways underlying SARS-COV-2 infections and exploring recent epigenetic-associated clinical trials.	M. Masi Malaiyan, P. Mohan Kumar, P. Logesh, K. Sibi, S. Tamizharasi, J. Nandhakumaran, S. Janani and T. Prabha	Annals of Phytomedicine 13(1): 167-178, 2024
3	Pharmacological uses of the plant <i>Trianthema decandra</i> (L.): A prospective review	P. Dakshinesh, A. Navaneetha, S. Mohana Ranghan, P. Vasuki, S. Gohul, G. Vishnu, A. Jeevan Bhaarathi and T. Prabha	Journal of Phytonanotechnology and Pharmaceutical Sciences 3(1): 16-21, 2023
4	Discovery of toll-like receptors 7 (TLR7) antagonists to minimise the risk of COVID infection in rheumatoid arthritis via virtual screening approaches	P. Dakshinesh, C. Selvintharuja, K. Dharanikumar, T. Boopathiraj, M. Gunaseelan, V. Sanjai, T. Sivakumar and T. Prabha	Journal of Phytonanotechnology and Pharmaceutical Sciences 3(1): 16-21, 2023
5	Mucoadhesive Drug Delivery System: Enhancing Therapeutic Efficacy Through Precise Localized Treatment	Sumathi, Gokulraj, Harish , Hanwar Niyaz, Sathish Kumar , Sivakumar	Gravida Review Journal :175-186

Table 3: Rubrics for Project Work Evaluation

Internal examiner (Max. marks:75) + External Examiner (Max. marks: 75)					
	Excellent	Good	Average	Satisfactory	To be Improved
(a) Objective(s) of the work done (15)	Outstanding investigation of literature and well summarized (13)	Good investigation of literature and conclusions are not appropriate (12)	Moderate study of the existing literature & conclusions are not appropriate (11)	Minimal referencing of the existing literature & conclusions are not appropriate (10)	Investigation of literature is not satisfactory and not summarized and concluded (<10)
(b) Methodology adopted (20)	Detailed and extensive Problem statement (18)	Problem and its implications well understood and described (16)	Problem and its implications are specified but detailing is not done (14)	Problem and its implications understood but not well described or presented. (12)	Problem is not specified properly (<12)
(c) Results and Discussions (20)	All objectives of the proposed work are well defined and appropriate design methodology (18)	Good justification to the objectives; Methodology to be followed is specified but detailing is not done (16)	Only some objectives of the proposed work are defined; Methodology is not properly justified (14)	Only some objectives of the proposed work are defined; Methodology is not properly defined (12)	Incomplete definition of objectives. Methodology not defined properly (<12)

(d) Conclusions and Outcomes (20)	Excellent planned and executed presentation leaving the listeners in no doubt (18)	Quality presentation and demo. Clear and concise description leaving listeners with sound understanding of literature and problems (16)	Contents of presentations are appropriate but not well delivered (14)	Contents of presentations are appropriate but not well arranged (12)	Contents of presentations are not appropriate and not well delivered. (<12)
Report (Max. marks :75)					
	Level of Achievement				
	Excellent	Good	Average		
(a) Presentation of work (25 Marks)	According to the specified format with excellent clarity (23)	According to the specified format but some mistakes (21)	Not prepared according to the specified format (19)		
(b) Communication skills (20 Marks)	Excellent (18)	Good (16)	Average (14)		Needs improvement (<10)
(c) Question and answer skills (30 Marks)	Well summarized and concluded. Future extensions are well specified (28)	Summary and conclusion not very appropriate. Future extensions are well specified (25)	Not summarized and concluded. Future extensions are not specified (22)		

2.2.4 Initiatives related to Industry and/or Hospital interaction (20)

Institute Marks : 20.00

College aspires to provide experimental learning to support the student to upgrade their technical skills and gain to real science and industrial exposure.

As part of the initiative, the college have done the following to bridge the industrial gap:

- Organizing industrial trip, research laboratory visit, medical and botanical garden visit, pharmaceutical manufacturing industrial visit.
- The college organizes guest lectures inviting eminent professionals from industry and hospital.
- Colleges signs MOU's with the industry and hospitals to carry out various activities which includes faculty development training, student technical skill training, curriculum development by bridging the gap identified.
- The medical and industrial professionals are invited to deliver the portion of the curriculum.
- Medical professionals/industrial professionals are appointed as a visiting faculty who deliver the 50+ hours of lectures in an academic year to the students. (Dr. Feroz Khan, Dr. Chelladurai, Dr. Arun kumar)
- Through the MOU's, students are encouraged to do internship programs.
- The industrial professionals are part of the department advisory board and governing body providing valuable insight for the development of the programme.

INDUSTRIAL TRIP/ RESEARCH LABORATORY VISIT:

Our college encourages students for industrial/ research laboratory visit for the exposure to research work, hands on training, interaction with researchers, explore career opportunities and for understanding equipment and techniques.



Figure 1: SURIEN PHARMACEUTICALS PVT.LTD

B.Pharm 6th Semester students visited Surien Pharmaceuticals Pvt.Ltd, Pharmaceutical Company, Chennai.

Surien Pharmaceuticals is WHO-GMP certified Pharma manufacturing company. An industrial visit to Surien Pharmaceuticals providing the students with practical exposure to pharmaceutical manufacturing processes



Figure 2: SPAAR RESEARCH LABS, PHARMACEUTICAL LAB, VANAGARAM, CHENNAI

B.Pharm 7th Semester students visited SPAAR Research Labs at Chennai.

SPAAR Lab is a development organization focused on end-to-end product development of innovative products. An industrial visit to SPAAR Research lab provides students for better practical understanding of advanced research and development process in the pharmaceutical field.

PARTIAL DELIVERY OF COURSES

Lecture on HPLC applications in pharmaceutical industry Mr. P. Saravanan, an industry expert from SPINCO Biotech, Chennai has delivered lecture on HPLC applications in pharmaceuticals for 7th semester B.Pharm students on 23/02/2024. The lecture was given for 3 hours and it focused on the emerging trends in HPLC, provided insightful examples from industry, illustrating both current innovations and potential, future applications in the field.

This lecture contributed to the academic enrichment of student by exposing them to industrial expert and current technological trends. The lecture contributed significantly to the course outcomes of the students, bridging the gap between academic theory and real - world practice. The session was extremely beneficial particularly in enhancing their understanding applications of HPLC into pharmaceuticals.



Figure 3: Lecture on HPLC applications in pharmaceutical industry

GUEST LECTURES

College organizes guest lectures where an expert from a specific field is invited to share their knowledge, insights and experiences with students. It enhances learning beyond text books by providing real world perspectives.

Table 1: List of Resource Person Guest Lectures

S.NO	TOPIC	RESOURCE PERSON WITH DESIGNATION	NUMBER OF STUDENTS
ACADEMIC YEAR 2023-2024			
1	Discovering discoveries of apothecaries	Dr. Are Holen, Clinical Psychiatrist	40
2	Optimal batch size in-process validation	Dr. Subrahanya Bhat, Director, Cronus Research labs, Bangalore	98
3	Bionano Materials Advances in Nanomedicine	Dr. K. Rukmani	93
4	Workshop on Entrepreneurship Skill, Attitude and Behavior Development	Prof. JUNISE V, M.Pharm, Vice principal, AL SHIFA college of Pharmacy, Kerala	90
5	Communicative Skill Development Program for Women	Mr. Shanmuga Sundaram from Infosys	100
6	How to become an entrepreneur	Mr. Sheik Mohammad Shamir, B.Pharm	50

ACADEMIC YEAR 2022-2023			
4	Pharmaceutical care process and Reconciliation	Dr. Veerendra Chandrala Pharm.D, Haemato & Onco Clinical Pharmacist, from American Oncology Institute, Coimbatore	93
5	Effective documentation of Research data in product development	Dr. M. Elizabeth Sobhia, Asst. Professor from National Institute of Pharmaceutical Education & Research, Mohali, Punjab	90
6	Modern technology usage in manufacturing of pharmaceutical formulations	Dr. Randy Pembroke, Chancellor of Southern Illinois University	96
7	Role of clinical pharmacist in basic nuclear medicine	Dr. Arun Pandian, Nuclear Pharmacist, KMCH, Coimbatore	94
8	Advanced in cell-based screening methodologies	Dr. S. Kavimani Prof. and Head, Department of Pharmacology, Mother Therasa	99



Prof. JUNISE V, M.Pharm, Vice principal, AL SHIFA college of Pharmacy, Perinthalmanna, Malappuram, Kerala, one of the alumni of Nandha College of Pharmacy (1996-2000) delivered a guest lecture in the workshop on Entrepreneurship Skill, Attitude and Behavior Development

conducted by Nandha College of Pharmacy on 12th February, 2024. He delivered a valuable speech regarding qualities of a successful entrepreneur, vision and passion, risk taking abilities, creativity and innovation, strong leadership and decision making.



Mr. Shanmuga Sundaram from Infosys delivered a guest lecture on the topic "Communicative Skill Development Program for Women" on 19th December, 2024



Mr. Sheik Mohammad Shamir, B.Pharm., one of the alumni of Nandha College of Pharmacy (2008-2012) has enlightened the participants of how to become an entrepreneur.

Figure 4: Glimpses of Geust Lecture delivered

MOU's WITH INDUSTRIES AND HOSPITALS

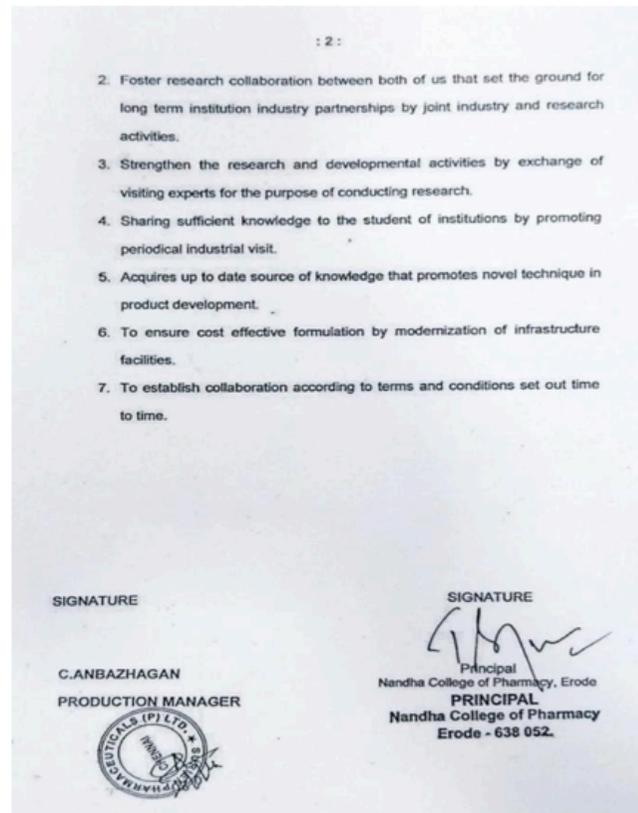
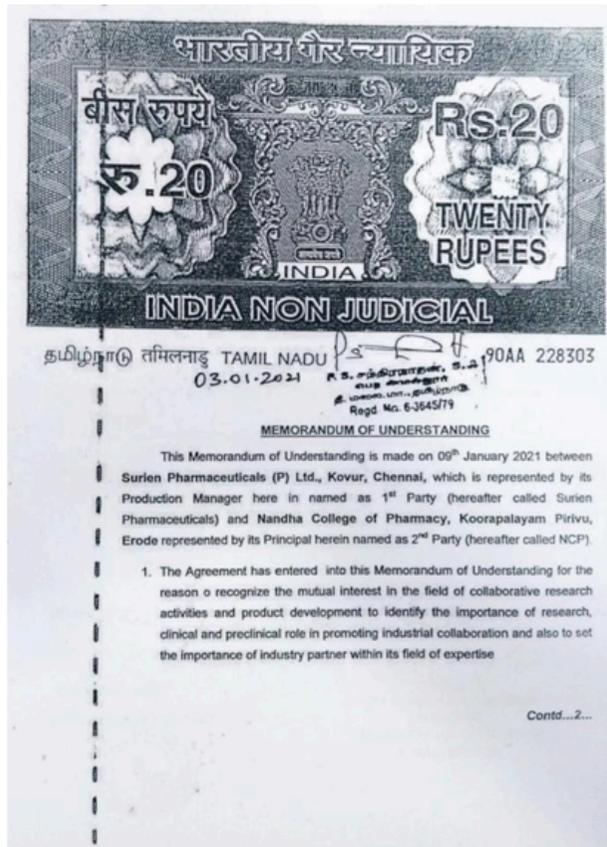
College signs MOU's with industries and hospital to establish collaboration for mutual benefits such as research, training, internships and knowledge sharing. It provides internships and training opportunities for students and strengthens placement opportunities for graduates.

Table 1: Events Conducted through MOU

S.No	Industries	Events Through Mou
1.	Middle Mist Pharmaceuticals Pvt.Ltd, Chennai	Industrial Visit
2.	Cellicure Therapeutics, Coimbatore	Industrial Visit
3.	Aarovin Pharmaceuticals Pvt. Ltd., Chennai	Industrial Visit
4.	Iyarkai Herbal Products, Erode	Industrial Visit
5.	Shawin Pharmaceuticals, Chennai	Industrial Visit
6.	Surien Pharmaceuticals (P) Ltd, Chennai	Industrial Visit
7.	Sakthi Naturals Pvt. Ltd, Pondicherry	Industrial Visit
8.	Elies Biotech Private Ltd, Erode	Industrial Visit
9.	Oneomics Pvt. Ltd, Trichy	Industrial Visit
10.	Kles College Of Pharmacy, Hubballi	Industrial Visit
11.	Kniss Laboratories, Chennai	Industrial Visit
12.	Spaar Research Lab	Industrial Visit

Table 2: Events Conducted through MOU

S.No	Hospital	Events Through Mou
1.	Government Erode Medical College & Hospital, Perundurai	Project & Training
2.	G Kuppusamy Naidu Memorial Hospital, Coimbatore	Project & Training
3.	Ganga Hospital, Coimbatore	Project & Training
4.	N. G. Hospital, Coimbatore	Project & Training
5.	Indian Cancer Centre, Tiruppur	Project & Training
6.	Tirupur Aadhear Medical Centre & Hospital, Tirupur	Project & Training



MOU OF SURIEN PHARMACEUTICALS PVT.LTD

Figure 5: Sample Signed copy of MOU

INVITED INDUSTRIAL PROFESSIONAL

The Industrial professionals are invited to bridge the gap between theoretical knowledge and real world applications. These professionals bring industrial insights, trends and expertise that benefit students and faculties.

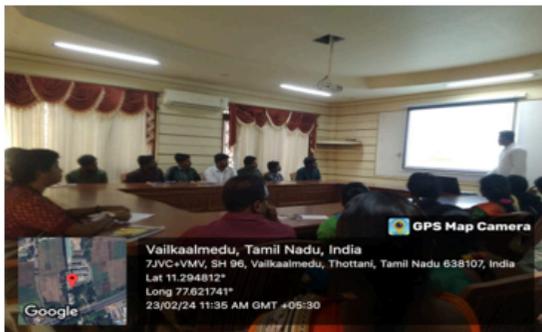
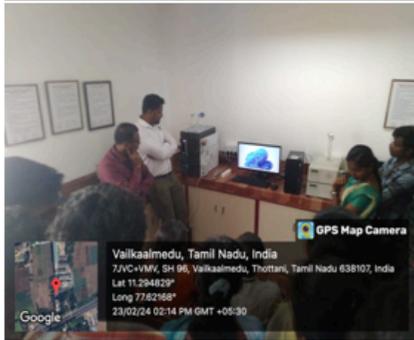
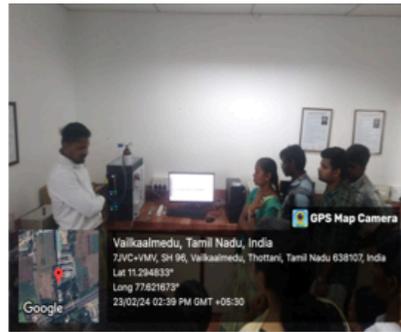


Figure 6: Mr. P. Saravanan, Trainer, SPINCO Biotech, Chennai invited for HPLC training

Industrial Professional In Department Advisory Board (DAB)

 NANDHA COLLEGE OF PHARMACY Koorapalayampirivu, Pitchandampalayam Erode-52				
DEPARTMENT ADVISORY BOARD (DAB) MEETING				
Meeting no: 1	Date: 16.02.2024	Time: 12.30 P.M	Venue: Conference Room, Pharm D Block	Year: 2023-2024

DEPARTMENT ADVISORY BOARD (DAB)

The department advisory board helps with faculty development, research and other activities. The board may also help to prepare guidelines for programs and courses.

S.No	NAME	DESIGNATION IN COMMITTEE
1.	Dr. T. Sivakumar	Principal, Chairman Nandha College of Pharmacy, Erode.
2.	Dr. S.Sengottuvelu	Member, Pharmacology Department Prof and Head, Dept of pharmacology, Nandha College of Pharmacy, Erode.
3.	Dr. S. Haja Sherif	Member, Pharmacy Practice Prof and Head, Dept of Pharmacy Practice Nandha College of Pharmacy, Erode.
4.	Dr. K. Srinivasan	Member, Pharmaceutical Chemistry Professor, Dept of Pharmaceutical Chemistry Nandha College of Pharmacy, Erode.
5.	Dr. A. Sumathi	Member, Pharmaceutics Department Professor, Dept of Pharmaceutics Nandha College of Pharmacy, Erode.
6.	Mr. R. Sivakumar	Member from Industry Reginix biologics, Chennai.
7.	Dr. R. Sambath kumar	Member from academican Principal, Erode College of Pharmacy, Veppampalayam, Erode.
8.	Mr. Kothandaraman	Member from parents Aval Poondurai, Erode – 638115.
9.	Ms. K. Preethi	Member from alumni PhD. Scholar, NIPER, Hyderabad
10.	Mr. John Stains	Member from alumni Project. Assistant, Dept of Nephrology, CMC, Vellore. (Ranipet Campus)

Figure 7: DAB Members List shows the member from Industry

SKILL DEVELOPMENT

The college organizes various skill development program throughout the four years. It helps the students to get internship and summer training. The skill development includes technical skills, communication skills, aptitude and entrepreneurship skills and GPAT training.

TECHNICAL SKILLS

The technical proficiency needed for pharmacy students to use their knowledge in real-world and professional contexts. Students gain practical experience using lab equipment, performing pharmaceutical analysis using cutting-edge methods like UV-visible spectrophotometry and High-Performance Liquid Chromatography (HPLC), and following legal requirements for the production and distribution of pharmaceuticals. Technical skills also apply to patient Counselling, where students are taught how to convey drug-related details, dose guidelines, and possible adverse effects in order to guarantee medication safety and adherence. It is also crucial to have practical understanding of hospital and clinical pharmacy, including pharmacovigilance, medication interaction analysis, and prescription interpretation.

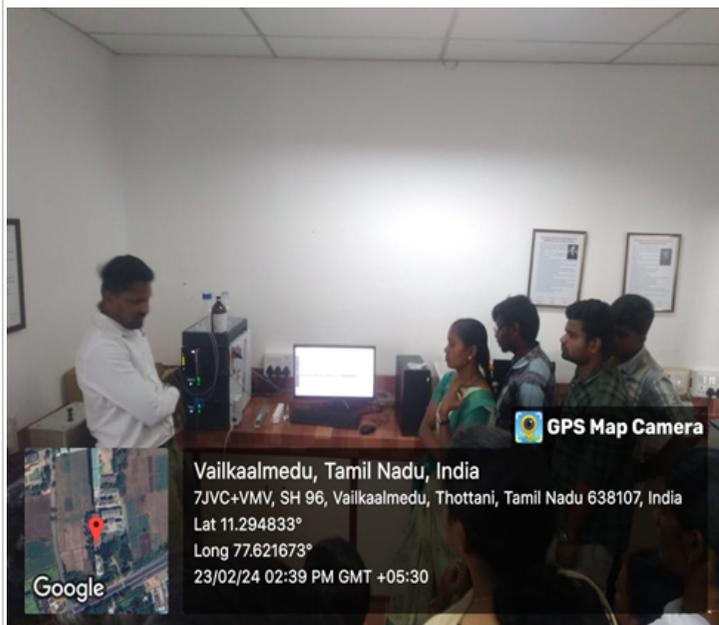


Figure 1: INDUSTRIAL EXPERT INVITED FOR HPLC TRAINING



Figure 2: Prof. JUNISE V, M.Pharm, Vice principal, AL SHIFA college of Pharmacy, Perinthalmanna, Malappuram, Kerala.



Figure 3: Mr. Shanmuga Sundaram from Infosys delivered a guest lecture on the topic “Communicative Skill Development Program for Women” .

COMMUNICATION SKILL

The focus of Communication Skills is on graduates capacity to interact with industries, healthcare professionals, and the general public in an efficient manner. It includes interpersonal communication for working with healthcare teams and empathetically addressing patient concerns, oral communication for patient counselling, drug information dissemination, and professional presentations, and written communication for thesis and research papers.



Figure 4: LECTURE ON COMMUNICATION SKILL DEVELOPMENT



Figure 5: PATIENT COUNSELLING

APTITUDE SKILL

Aptitude Skills refers to a graduates ability to apply logical reasoning, analytical thinking, and problem-solving skills in pharmaceutical sciences and healthcare. It includes logical reasoning for interpreting clinical data, solving case studies, and making decisions in patient care; quantitative aptitude for dosage calculations, drug formulations, and statistical analysis in research; and critical thinking for evaluating drug interactions, quality control, and regulatory compliance. Pharmacy graduates with strong aptitude abilities may successfully contribute to clinical practice, pharmaceutical research, industrial innovation, and the analysis of complicated problems.

Table 1: Pre-placement activities

First Year	
Day	
1	Verbal

2	Communication
3	Parts of Speech
4	<p>Technical skill</p> <ul style="list-style-type: none"> Mastering of development of web applications (HTML) creation of databases for pharmaceutical industries.
Second Year	
1	<p>Aptitude skill</p> <ul style="list-style-type: none"> Being able to solve problems and make decisions based on evidence Being able to connect with patients and other professionals
2	<p>Technical skill</p> <ul style="list-style-type: none"> To understand the fundamental chemistry and structure activity relationship To identify the phyto constituents present in various medicinal plants
3	Tenses
4	Subject verb Agreement
Third Year	
1	Reading Comprehension, Data Interpretation
2	Group discussion
3	Cover letter writing
4	<p>Presentation skills</p> <ul style="list-style-type: none"> Incorporating the student into patient care activities Patient counseling and interviewing the patients
5	<p>Technical skill</p> <ul style="list-style-type: none"> To demonstrate the pharmacological experiments by expharm software To understand the knowledge about different pharmaceutical dosage forms and its action
Final Year	
1	Body Language & Personality development
2	<p>Leadership skills</p> <ul style="list-style-type: none"> To create a harmonious team environment through the social insight and service orientation
3	<p>Interview skills</p> <ul style="list-style-type: none"> The students are advised to improve the attitude for attending interview, Do's and Don'ts should be followed during the interview

4	Technical skill <ul style="list-style-type: none"> ◦ Training given to handle pharmaceutical equipments with accuracy and precision ◦ Guidance given to keep track of inventory and patient profiles
---	--

GPAT and Higher Education

Our institution conducts GPAT (Graduate pharmacy Aptitude Test) coaching to the students. The institution incorporates the study materials, conducts regular mock tests, offer personalized guidance, facilitate doubt clearing sessions and promote a supportive learning environment while aligning the curriculum closely with the GPAT syllabus and exam pattern

The Qualified GPAT student's details are follows

Table 2: Details of Students Qualified in GPAT Exams

Year	Name of the student	Qualifying Exam
2023-24	Murugan.G	GPAT
2022-23	Saran Kumar	NIPER
	Dhivya Bharathi.R	GPAT
	Ranjith.K	GPAT
	Janani.S	GPAT
2021-22	Dakshinesh. P	GPAT
	Dibenthiran.S	GPAT
	Dharini.M	NIPER
2020-21	Jagadesh.N.V	GPAT
	Manigandan.M	NIPER
	Akshayaa.A	NIPER



Figure 6: LECTURE FOR GPAT EXAM PREPARATION

INDUSTRY INTERNSHIP/ SUMMER TRAINING

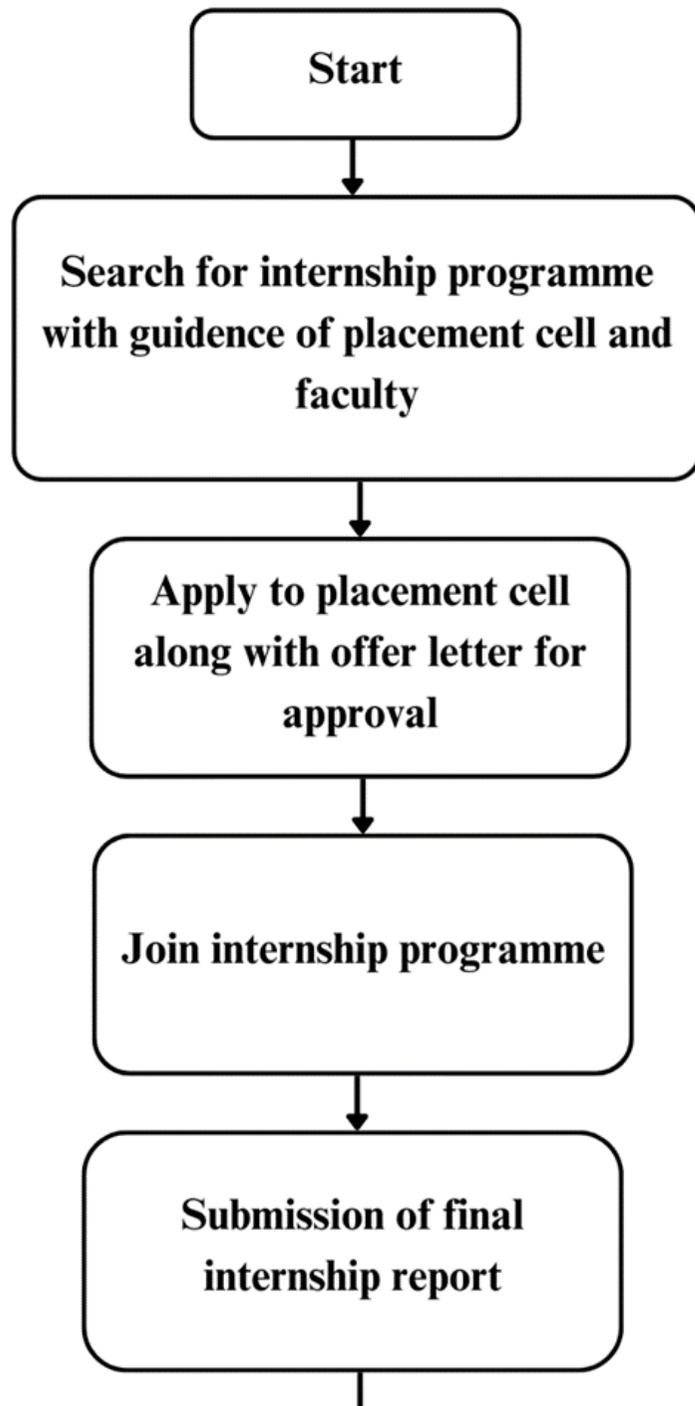




Figure 7: PROCESS OF INDUSTRY INTERNSHIP/ SUMMER TRAINING

- Training and placement officers will arrange the internship at industries based on student's interest
- Student need to obtain bonafide from head of the institution and send it to the industry supervisor, who will approve and send the final offer letter to the students via Email/Post.
- Student will join concerned Industry for Internship on the date as communicated in the final offer letter/Email Confirmation.
- Student will undergo industrial training at the concerned Industry. During the internship, Faculty Mentor will evaluate(s) the performance of students once/twice either by online mode.
- Student will submit training report to the industry at the end of internship.
- After successful completion of the Internship, Student will be evaluated.

The industrial training programme is arranged for the list of sixth semester B.Pharm students at formulation development and quality control/assurance department in SPAAR research labs, Chennai as per their request received through faculty coordinator. Totally, 20 students (12 boys & 8 girls) will be attending industrial training in two slots. The first slot is scheduled from 26th February to 7th March 2024 for 10 students. The second slot is scheduled from 18th March to 28th March 2024 for another 10 Students.

Table 3: Few list of students participated in industrial training (in the year 2024)

S.NO.	NAME OF THE STUDENTS	
	FIRST SLOT (26/02/2024 TO 07/03/2024)	SECOND SLOT (18/03/2024 TO 28/03/2024)
1	BHARATH. M	ABARNA.K
2	DEEBAN BALAJI. G	ABINAYA SRIS
3	DHANAKODI. A	DEEPIKA.R
4	DHAYANANTH. R	DEVA DHARSHINI K
5	KANNAN. D	MAHESHWARI K
6	PRAVIN. S	MANASA E.T
7	ROHITH. R	RAMYA.A

8	SIVA HARI VASAN. AS	KAVI ARASAN.M
9	SRIRAM. S	KAVIYARASAN.T
10	SUDHARSAN S.M	MEGAVARNAN.V

2.2.6 Continuous Evaluation Process (10)

Institute Marks : 10.00

As per the Tamil nadu Dr. M.G.R. Medical University, for Credit Based Semester and Grading System (CBSGS) curriculum, 25% weightage is given to continuous evaluation (both in theory and practical) and 75% weightage given to end semester examination.

Course outcome attainment assessment process includes direct attainment (80 %) and indirect attainment (20 %). Direct attainment includes theory assessment, practical assessment and project work assessment.

Table 1: Internal and End Semester Mark Split up for various Courses

S. No.	Category of Course	Internal Marks	End Semester Examination Marks	Total Marks
1.	Theory Course	25	75	100
2.	Practical Course	15	35	50
3.	Project Work	25	275	300

Table 2: Internal Assessment Process for Theory Courses

S.No.	Components for Internal Assessment Marks	Syllabus Coverage for the Test	CO Coverage	Duration of the test in Hrs	Marks (max.)
1	Sessional Examination I	1- 2.5 units	CO1, CO2, CO3	3 Hrs	75 Marks is converted to 15 Marks
2	Sessional Examination II	2.5 -5 units	CO3, CO4, CO5	3 Hrs	(Average of I & II)
3	Continuous Assessment Mode				
	Attendance	-		-	4
	Academic activities (Average of 3 activities such as quiz, assignment, and seminar)	-	CO1, CO2, CO3, CO4, CO5	-	3
	Student – Teacher interaction	-		-	3
TOTAL					25

LAB PLAN

In the laboratory setup, the experiments are conducted as per the syllabus prescribed by the Tamil Nadu Dr.M.G.R Medical University and identified gaps. Opportunities are given for acquiring practical skills to under graduates wherever possible.

Continuous evaluation for practical is an ongoing assessment process where a student practical skills, knowledge and performance are consistently evaluated regularly. This encourages active learning and helps identify areas that need improvement. The writing of the practical records, submission and evaluation are done regularly. Viva voce/ synopsis is conducted for every practical.

Attendance – 2 marks

Based on Practical records, Viva voce - 3 marks

Each Sessional examinations are conducted for 40 marks, which is converted to 10 marks.

2 marks for attendance and 3 marks for records and Viva voce is added to 10 marks sessional as internal practical marks for each student. Records for each is maintained.

NANDHA COLLEGE OF PHARMACY, ERODE

PRACTICAL EVALUATION FORM

NAME OF THE STUDENT: THANUSHRI

DATE: 20-02-2024

COURSE AND YEAR OF THE STUDY: B.PHARM I SEMESTER

SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY I

EXPERIMENT TITLE: ESTIMATION OF HEMOGLOBIN IN BLOOD

EVALUATION CRITERIA:

Criteria	Maximum Marks	Marks Awarded
Experiment	10	9
Attendance	2	2
Viva voce	3	3
Total Score	15	14

COMMENTS (IF ANY):

NAME OF THE FACULTY:

Mrs. K. GLADYS KALPANA

SIGNATURE OF THE FACULTY:

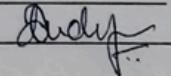


Figure 1: Sample copy of Practical Evaluation Form**Table 3: FIRST SEMESTER B. PHARM LAB PRACTICAL MANUAL (SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY I (BP107P))**

S. NO	DATE	NAME OF THE EXPERIMENTS	PO	EXP. MARK	VIVA & ATTENDANCE MARK
1	4/11/2023	STUDY OF COMPOUND MICROSCOPE	PO1, PO4	10	5
2	16/11/2023	OSTEOLOGY: THE HUMAN SKELETAL SYSTEM	PO1, PO11	10	5
3	30/11/2023	AXIAL SKELETON: THE SKULL, THORACIC CAGE, RIBS, HYOID BONES, AUDITORY OSSICLES, BONES OF VERTEBRAE	PO11	10	5
4	30/11/2023	APPENDICULAR SKELETON: UPPER EXTREMITY: HUMERUS. RADIUS, ULNA. BONES OF HAND: WRIST AND FINGERS, LOWER EXTREMITY: FEMUR, TIBIA, FIBULA, PATELLA, BONES OF FEET: TARSAL AND META, BONES OF SHOULDER GIRDLE -SCAPULA, CLAVICLE, PELVIC GIRDLE	PO11	10	5
HAEMATOLOGY					
5	9/2/2024	DETERMINATION OF BLEEDING TIME	PO1	10	5
6	9/2/2024	DETERMINATION OF CLOTTING TIME	PO1	10	5
7	20/2/2024	ESTIMATION OF HAEMOGLOBIN IN BLOOD	PO1, PO2	10	5
8	20/2/2024	DETERMINATION OF BLOOD GROUP	PO1, PO4	10	5
9	23/2/2024	ENUMERATION OF WBC COUNT	PO1, PO4	10	5
10	23/2/2024	ENUMERATION OF RBC COUNT	PO1, PO4	10	5
HISTOLOGY					
11	26/3/2024	EPITHELIAL TISSUE: SIMPLE SQUAMOUS, STRATIFIED SQUAMOUS, SIMPLE CUBOIDAL, STRATIFIED CUBOIDAL, SIMPLE COLUMNAR, SIMPLE CILIATED COLUMNAR, STRATIFIED COLUMNAR, PSEUDOSTRATIFIED COLUMNAR, TRANSITIONAL EPITHELIUM, GLANDULAR EPITHELIUM (ENDOCRINE GLAND), GLANDULAR EPITHELIUM (EXOCRINE GLAND)	PO11	10	5

12	26/3/2024	CONNECTIVE TISSUE: AREOLAR, ADIPOSE, RETICULAR, DENSE REGULAR, DENSE IRREGULAR, ELASTIC, HYALINE CARTILAGE, FIBRO CARTILAGE, ELASTIC CARTILAGE, BONE TISSUE, BLOOD	PO1	10	5
13	26/3/2024	MUSCULAR TISSUE: SKELETAL MUSCLE, CARDIAC MUSCLE, SMOOTH MUSCLE, NERVOUS TISSUE	PO1	10	5
PHYSIOLOGICAL EXPERIMENTS					
14	2/3/2024	RECORDING THE BLOOD PRESSURE	PO4, PO11	10	5
15	2/3/2024	DETERMINATION OF BODY TEMPERATURE	PO4, PO1	10	5
16	9/2/2024	DETERMINATION OF ESR	PO11, PO4	10	5
17	2/3/2024	DETERMINATION OF HEART RATE AND PULSE RATE	PO1	10	5

STUDENT MARK LIST FOR THE EXPERIMENT ESTIMATION OF HEMOGLOBIN IN THE BLOOD

S.NO	NAME OF THE STUDENTS	EXP. MARK (10)	VIVA. MARK (3)	ATTENDANCE (2)	TOTAL
1	PRIYANKA. M	9	2	2	13
2	PUTHIYALAKSHMI. G	8	2	2	12
3	RAGUL. M	8	2	2	12
4	RAGUL. P	7	2	2	11
5	RASUPILLAI. N	8	3	2	13
6	SAKTHIVEL. S	9	2	2	13
7	SANDHIYA. K	9	3	2	14
8	SANJAI KUMAR. J	8	2	2	12
9	SANJAY KUMAR. S	7	2	2	11
10	SANJAY PARAMESH	7	3	2	12
11	SANJAY.D	8	3	2	13
12	SANTHOSH.M	8	3	2	13
13	SHEELA.G	9	2	2	13
14	SOMASKANDAN.S	9	2	2	13
15	SOUNDARRAJAN.N	9	3	2	14
16	SRI SARITHA. K.S	9	2	2	13
17	SUHANA.S	8	3	2	13
18	SUMAN KUMAR.B	7	2	2	11
19	SUPRIYA.R	9	3	2	14
20	SUSHMAA.S	9	3	2	14

21	TAMILMANI.R	9	2	2	13
22	TANUSHRI S.S	9	3	2	14
23	THAHSHEEN THAJ.S	8	2	2	12
24	THANUSHNI PALANIAPPAN	8	2	2	12
25	SARAVANAN	8	2	2	12
26	THENMOZHI.T	8	3	2	13
27	TONY JACKSON.V	8	2	2	12
28	VETRIVELAN.D	9	2	2	13
29	VISHNUPRIYA.V	9	2	2	13
30	VISHNUSRI.S	9	3	2	14
31	VISWANTH. K.P	9	2	2	13
32	YASAR ARAFATH.A	9	2	2	13
33	YASVANTH. S.S	9	2	2	13
34	YASWANTH. C.M	9	2	2	13

NAME OF THE FACULTY: Mrs. K. Celady's

SIGNATURE OF THE FACULTY: [Signature]

Figure 2: Sample copy of Practical Assesment

The college has a machine room as well as an instrument room having equipments for pilot-plant scale up studies and sophisticated instruments such as HPLC (Binary and Isocratic), FTIR, and UV Spectrophotometer(s), respectively. College laboratories are well equipped with basic requirements as per the syllabus.

1. The Tamilnadu Dr. M.G.R Medical University curriculum specifies the number of experiments in each course along with the type of practicals to be conducted.
2. Students are given demonstration and hands-on experience on equipments some of which are a part of their theory syllabus. Thus, students can correlate theoretical concepts with practical knowledge, enabling them to have a better understanding of the subject.
3. The practicals of the overall Program taken together from Sem I to Sem VIII involve skills addressing various Bloom Levels depending on the respective course and year of study (e.g. tabulation of readings, calculations, plotting graphs, interpretation of results and comment on the results, wherever applicable).
4. Safe handling of chemicals, instruments and equipments is taught, wherever applicable.
5. After conduction of every practical, results obtained are discussed.
6. Students are oriented to refer Standard Operating Procedures (SOPs) before using any instrument or equipment especially for those which are sophisticated.
7. Safety precautions while operating equipments are explained.
8. Trouble shooting and maintenance is taught and demonstrated.
9. Students are also explained the importance of documentation.

LAB AND INFRA FACILITIES

These are the experiments conducted in each semester of the programme. The institution also conducts additional experiments and content beyond the syllabus.

TABLE 1: SAMPLE LIST OF EXPERIMENTS CONDUCTED AS PER OUR CURRICULUM ARE GIVEN BELOW

FIRST SEMESTER B. PHARM

1. SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY (BP107P)

S.NO	NAME OF THE EXPERIMENTS
1	STUDY OF COMPOUND MICROSCOPE
2	OSTEOLOGY: THE HUMAN SKELETAL SYSTEM
3	AXIAL SKELETON: THE SKULL, THORACIC CAGE, RIBS, HYOID BONES, AUDITORY OSSICLES, BONES OF VERTEBRAE
4	APPENDICULAR SKELETON: UPPER EXTREMITY: HUMERUS. RADIUS, ULNA. BONES OF HAND: WRIST AND FINGERS, LOWER EXTREMITY: FEMUR, TIBIA, FIBULA, PATELLA, BONES OF FOOTS: TARSAL AND META, BONES OF SHOULDER GIRDLE -SCAPULA, CLAVICLE, PELVIC GIRDLE
HAEMATOLOGY	
5	DETERMINATION OF BLEEDING TIME

6	DETERMINATION OF CLOTTING TIME
7	ESTIMATION OF HAEMOGLOBIN IN BLOOD
8	DETERMINATION OF BLOOD GROUP
9	ENUMERATION OF WBC COUNT
10	ENUMERATION OF RBC COUNT
HISTOLOGY	
11	EPITHELIAL TISSUE: SIMPLE SQUAMOUS, STRATIFIED SQUAMOUS, SIMPLE CUBOIDAL, STRATIFIED CUBOIDAL, SIMPLE COLUMNAR, SIMPLE CILIATED COLUMNAR, STRATIFIED COLUMNAR, PSEUDOSTRATIFIED COLUMNAR, TRANSITIONAL EPITHELIUM, GLANDULAR EPITHELIUM (ENDOCRINE GLAND), GLANDULAR EPITHELIUM (EXOCRINE GLAND)
12	CONNECTIVE TISSUE: AREOLAR, ADIPOSE, RETICULAR, DENSE REGULAR, DENSE IRREGULAR, ELASTIC, HYALINE CARTILAGE, FIBRO CARTILAGE, ELASTIC CARTILAGE, BONE TISSUE, BLOOD
13	MUSCULAR TISSUE: SKELETAL MUSCLE, CARDIAC MUSCLE, SMOOTH MUSCLE, NERVOUS TISSUE
PHYSIOLOGICAL EXPERIMENTS	
14	RECORDING THE BLOOD PRESSURE
15	DETERMINATION OF BODY TEMPERATURE
16	DETERMINATION OF ESR
17	DETERMINATION OF HEART RATE AND PULSE RATE

2. SUBJECT: PHARMACEUTICAL ANALYSIS(BP108P)

S.NO	NAME OF THE EXPERIMENTS
1	LIMIT TEST FOR CHLORIDES
2	LIMIT TEST FOR SULPHATES
3	LIMIT TEST FOR IRONS
4	LIMIT TEST FOR ARSENIC
5	PREPARATION AND STANDARDIZATION OF 0.1N SODIUM HYDROXIDE

6	ASSAY OF AMMONIUM CHLORIDE
7	PREPARATION AND STANDARDIZATION OF 0.1M PER CHLORIC ACID
8	ASSAY OF SODIUM BENZOATE
9	PREPARATION AND STANDARDIZATION OF 0.02M POTASSIUM PERMANGANATE
10	ASSAY OF HYDROGEN PEROXIDE
11	ASSAY OF CALCIUM GLUCO
12	PREPARATION AND STANDARDIZATION OF 0.1M CERRIC AMMONIUM SULPHATE
13	ASSAY OF FERROUS SULPHATE
14	PREPARATION AND STANDARDIZATION OF 0.1M SODIUM THIOSULFATE
15	ASSAY OF COPPER SULPHATE
16	ASSAY OF SODIUM CHLORIDE

3. SUBJECT: PHARMACEUTICS I (BP109P)

S.NO	LIST OF EXPERIMENTS
1	SIMPLE SYRUP IP
2	FERROUS SULPHATE SYRUP USP
3	PIPERAZINE CITRATE ELIXIR LP
4	PARACETOMOL PAEDIATRIC ELIXIR IP
5	CODEINE PHOSPHATE LINCTUS
6	POTASSIUM CHLORATE AND PHENOL GARGLE
7	SODIUM CHLORIDE MOUTH WASH
8	COMPOUND IODINE THROAT PAINT (MANDLESPAIN)
9	STRONG SOLUTION OF AMMONIUM ACETATE

10	CRESOL WITH SOAP SOLUTION
11	AQUEOUS IODINE SOLUTION IP
12	CALAMINE LOTION
13	MAGNESIUM HYDROXIDE SUSPENSION
14	ALUMINIUM HYDROXIDE GEL
15	TURPENTINE LINIMENT
16	CASTOR OIL EMULSION
17	LIQUID PARAFFIN EMULSION
18	ORAL REHYDRATION POWDER (O.R.S POWDER)
19	SODIUM PHOSPHATE EFFERVESCENT GRANUALES USP
20	COMPOUND ZINC OXIDE-SALICYLIC ACID DUSTING POWDER
21	ASPIRIN POWDER
22	A.P.C. POWDER
23	GLYCERO-GELATIN SUPPOSITORY BP
24	BORIC ACID SUPPOSITORY
25	ZINC OXIDE-GLYCERO GELATIN SUPPOSITORY
26	SIMPLE OINTMENT IP
27	SULPHUR OINTMENT BP
28	NON-STAINING IODINE OINTMENT LP/B.P.C
29	SODIUM CARBOXY METHYL CELLULOSE LUBRICATING JELLY

4. SUBJECT: PHARMACEUTICAL INORGANIC CHEMISTRY(BP110P)

S.NO	NAME OF THE EXPERIMENTS
IDENTIFICATION TESTS	
1	IDENTIFICATION TEST FOR FERROUS SULPHATE
2	IDENTIFICATION TEST FOR COPPER SULPHATE
3	IDENTIFICATION TEST FOR MAGNESIUM HYDROXIDE
4	IDENTIFICATION TEST FOR CALCIUM GLUCONATE
5	IDENTIFICATION TEST SODIUM BICARBONATE
LIMIT TESTS	

6	LIMIT TEST FOR CHLORIDE
7	LIMIT TEST FOR SULPHATE
8	LIMIT TEST FOR IRON
9	LIMIT TEST FOR ARSENIC
10	LIMIT TEST FOR LEAD
11	LIMIT TEST HEAVY METALS
MODIFIED LIMIT TEST	
12	MODIFIED LIMIT TEST FOR CHLORIDE ON POTASSIUM PERMANGANATE
13	MODIFIED LIMIT TEST FOR SULPHATE ON POTASSIUM PERMANGANATE
14	MODIFIED LIMIT TEST FOR CHLORIDE ON SODIUM BICARBONATE
15	MODIFIED LIMIT TEST FOR SULPHATE ON SODIUM BICARBONATE
PREPARATION OF INORGANIC COMPOUNDS	
16	PREPARATION AND IDENTIFICATION OF BORIC ACID
17	PREPARATION AND IDENTIFICATION OF POTASH ALUM
18	PREPARATION AND IDENTIFICATION OF FERROUS SULPHATE
TEST FOR PURITY	
19	SWELLING POWER OF BENTONITE
20	PRESENCE OF IODATE IN POTASSIUM IODIDE
21	ACID NEUTRALIZING CAPACITY OF ALUMINIUM HYDROXIDE GEL

SECOND SEMESTER B. PHARM

1. SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY (BP207P)

S.NO	NAME OF THE EXPERIMENTS
1	THE INTEGUMENTARY SYSTEM-SKIN
2	SENSE ORGANS-EYES, EARS, NOSE AND TONGUE
3	NERVOUS SYSTEM
4	GENERAL NEUROLOGICAL EXAMINATION

5	FUNCTION OF THE OLFACTORY NERVE
6	DIFFERENT TYPES OF TASTES
7	VISUAL ACTIVITY
8	REFLUX ACTIVITY
9	DETERMINATION OF BODY TEMPERATURE
10	DETERMINATION OF TIDAL VOLUME AND VITAL CAPACITY
11	POSITIVE AND NEGATIVE FEEDBACK MECHANISM
12	STUDY OF THE DIGESTIVE SYSTEM
13	STUDY OF THE RESPIRATORY SYSTEM
14	STUDY OF THE CARDIO VASCULAR SYSTEM
15	STUDY OF THE URINARY SYSTEM
16	STUDY OF THE REPRODUCTIVE SYSTEM
17	RECORDING OF BASAL MASS INDEX
18	STUDY OF FAMILY PLANNING DEVICES AND PREGNANCY DIAGNOSTIC TEST

2. SUBJECT: PHARMACEUTICAL ORGANIC CHEMISTRY 1 (BP208P)

S.NO	NAME OF THE EXPERIMENTS
PREPARATION OF ORGANIC COMPOUNDS	
1	PREPARATION OF 5-NITRO SALICYLIC ACID (NITRATION)
2	PREPARATION OF PHENYL BENZOATE (BENZOYLATION)
3	PREPARATION OF ASPIRIN (ACETYLATION)
4	PREPARATION OF SALICYLIC ACID (HYDROLYSIS OF ESTER)
5	PREPARATION OF BENZOIC ACID (HYDROLYSIS OF AMINE)
MELTING POINT OF ORGANIC COMPOUNDS	

6	MELTING POINT OF ORGANIC COMPOUNDS I
7	MELTING POINT OF ORGANIC COMPOUNDS II
8	MELTING POINT OF ORGANIC COMPOUNDS III
9	MELTING POINT OF ORGANIC COMPOUNDS IV
10	MELTING POINT OF ORGANIC COMPOUNDS V
SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS	
11	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS I
12	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS II
13	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS III
14	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS IV
15	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS V
16	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS VI
17	SYSTEMIC QUALITATIVE ANALYSIS OF UNKNOWN ORGANIC COMPOUNDS VII

3. SUBJECT: BIOCHEMISTRY (BP209P)

S.NO	EXPERIMENTS
1	QUALITATIVE ANALYSIS OF GLUCOSE.
2	QUALITATIVE ANALYSIS OF FRUCTOSE.
3	QUALITATIVE ANALYSIS OF MALTOSE.
4	QUALITATIVE ANALYSIS OF LACTOSE.
5	QUALITATIVE ANALYSIS OF SUCROSE.
6	QUALITATIVE ANALYSIS OF STARCH.
7	QUALITATIVE ANALYSIS OF ALBUMIN.

8	QUALITATIVE ANALYSIS OF CASEIN.
9	ANALYSIS OF ABNORMAL CONSTITUENTS OF URINE-I.
10	ANALYSIS OF ABNORMAL CONSTITUENTS OF URINE-II
11	PREPARATION OF BUFFER SOLUTION AND MEASUREMENT OF PH-PHOSPHATE BUFFER.
12	PREPARATION OF BUFFER SOLUTION AND MEASUREMENT OF PH-ACETATE BUFFER
13	QUANTITATIVE ANALYSIS OF REDUCING SUGAR BY DNSA METHOD
14	QUANTITATIVE ANALYSIS OF PROTEIN BY BIURET METHOD.
15	DETERMINATION OF CREATININE IN URINE BY ALKALINE PICRATE METHOD
16	ESTIMATION OF BLOOD SUGAR BY ORTHO- TOLUIDINE METHOD
17	DETERMINATION OF CHOLESTEROL IN SERUM BY ZAKS METHOD
18	DETERMINATION OF SALIVARY AMYLASE ACTIVITY

3 COURSE OUTCOMES (COS) AND PROGRAM OUTCOMES (POS) (100)

Total Marks 100.00

3.1 Establish the correlation between the courses and the Program Outcomes (NBA defined Program Outcomes as mentioned in Annexure I) (20)

Total Marks 20.00

3.1.1 Course Outcomes (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses) (5)

Institute Marks : 5.00

Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C1 01	Course Year :	2024-25
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Course Name	Statements
C1 01.1	Understand the fundamental knowledge on the gross morphology, structure, and functions of various organs of the human body Remember about the various homeostatic mechanisms and their imbalances Identify the various tissues and organs of different systems of human body Analyze the various experiments related to special senses and nervous system Evaluate the coordinated working pattern of different organs of each system
C1 01.2	Remember about the various homeostatic mechanisms and their imbalances
C1 01.3	Identify the various tissues and organs of different systems of human body
C1 01.4	Analyze the various experiments related to special senses and nervous system
C1 01.5	Evaluate the coordinated working pattern of different organs of each system

Course Name :	C1 02	Course Year :	2024-25
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Course Name	Statements
C1 02.1	Describe the classification, nomenclature, and isomerism of organic compounds
C1 02.2	Remember the methods of preparation and reactions of alkane, alkenes, and conjugated dienes
C1 02.3	Understand the structure, reaction mechanism, qualitative test for alkyl halides and alcohols
C1 02.4	Explain the reactions of carbonyl compounds such as aldehydes and ketones
C1 02.5	Summarize the acidity of carboxylic acids & basicity of aliphatic amines and impact of their substituents on properties

Course Name :	C2 01	Course Year :	2024-25
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Course Name	Statements
C2 01.2	Understand the methods of preparation & chemical reactions including mechanism and orbital picture, resonance of benzene and effect of substituents on reactivity
C2 01.3	Remember the preparation, properties and effect of substituents on the basicity of amines and acidity of phenols, aromatic carboxylic acids
C2 01.1	Explain about fats and oils, hydrolysis of fats and oils and their analytical constants
C2 01.4	Remember structure, synthesis of selected polynuclear aromatic compounds
C2 01.5	Explore the nomenclature, preparation, properties, and reactions of cycloalkanes

Course Name :	C2 02	Course Year :	2024-25
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Course Name	Statements
C2 02.1	Understand the concept of medicinal chemistry related to drugs, phase I & phase II reactions
C2 02.2	Describe the mechanism & SAR of drugs acting on adrenergic system
C2 02.3	Discuss the SAR of drugs acting on cholinergic system
C2 02.4	Summarize the SAR and synthesis of drugs acting on CNS
C2 02.5	Analyze the drugs acting on CNS, general anesthetics, and analgesics

Course Name :	C3 01	Course Year :	2024-25
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Course Name	Statements
C3 01.1	Explore the fundamentals on structure, chemistry, synthesis and therapeutic values of antihistamines and anti-neoplastic drugs
C3 01.2	Explain classification, chemistry, synthesis, and uses of anti-anginal, diuretics, and antihypertensive drugs
C3 01.3	Remember the chemistry of cardiovascular and antihyperlipidemic drugs
C3 01.4	Determine the nomenclature, stereochemistry and metabolism of steroids, anti-thyroid drugs
C3 01.5	Study of synthesis and chemistry of antidiabetic drugs, and SAR of local anesthetics

Course Name :	C3 02	Course Year :	2024-25
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Course Name	Statements
C3 02.1	Understand the pharmacology, mechanism & therapeutic applications of drugs used for respiratory and gastrointestinal disorders
C3 02.2	Study the principles of chemotherapy & pharmacology of sulfonamides, cotrimoxazole, and other antibiotics
C3 02.3	Explain the pharmacology, mechanism, & therapeutic applications of antitubercular, antileprotic, antifungal, antiviral, anthelmintic, antimalarial, and antiamoebic agents
C3 02.4	Describe the chemotherapy of infections & malignancy, immunopharmacology and biosimilars
C3 02.5	Illustrate the principles of toxicology, treatment of poisoning, and chronopharmacology

Course Name :	C4 01	Course Year :	2024-25
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Course Name	Statements
C4 01.1	Differentiate electronic transitions, instrumentation & applications of UV visible spectroscopy, fluorimetry, and EMR
C4 01.2	Explore the principles & applications of IR spectroscopy, flame photometry, atomic absorption spectroscopy, and nepheloturbidometry
C4 01.3	Appreciate the applications of chromatographic techniques in analysis and assay of drugs
C4 01.4	Explain the principle, instrumentation & applications of GC and HPLC in drug analysis
C4 01.5	Describe the principle, instrumentation, & applications of other chromatographic systems

Course Name :	C4 02	Course Year :	2024-25
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Course Name	Statements
C4 02.1	Remember the concepts and evaluation of public health
C4 02.2	Explain the prevention and control of communicable & noncommunicable diseases
C4 02.3	Summarize the objectives, functioning and outcomes of national health programs
C4 02.4	Explain various national health intervention programs
C4 02.5	Remember the community services in rural, urban, and school health

3.1.2 CO-PO matrices of courses selected in 3.1.1 (four matrices to be mentioned; one per semester from 1st to 8th semester; atleast one per year) (5)

Institute Marks : 5.00

1 . course name : C101

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C101.1	3 √	3 √	- √	1 √	- √	2 √	- √	3 √	3 √	1 √	3 √
C101.2	3 √	3 √	- √	1 √	- √	2 √	- √	3 √	2 √	- √	3 √
C101.3	3 √	3 √	- √	1 √	- √	2 √	- √	3 √	2 √	1 √	3 √
C101.4	3 √	3 √	- √	1 √	- √	2 √	- √	3 √	2 √	- √	3 √
C101.5	3 √	3 √	- √	1 √	- √	2 √	- √	3 √	3 √	1 √	3 √
Average	3.00	3.00	0.00	1.00	0.00	2.00	0.00	3.00	2.40	1.00	3.00

2 . course name : C102

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C102.1	3 √	3 √	3 √	2 √	- √	- √	2 √	3 √	- √	- √	3 √
C102.2	3 √	3 √	3 √	2 √	- √	- √	2 √	3 √	- √	- √	3 √
C102.3	3 √	3 √	3 √	2 √	- √	- √	2 √	3 √	- √	- √	3 √
C102.4	3 √	3 √	3 √	2 √	- √	- √	2 √	3 √	1 √	1 √	3 √
C102.5	3 √	3 √	3 √	2 √	- √	2 √	- √	3 √	1 √	- √	3 √
Average	3.00	3.00	3.00	2.00	0.00	2.00	2.00	3.00	1.00	1.00	3.00

3 . course name : C201

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C201.2	2 √	1 √	- √	1 √	- √	2 √	2 √	- √	- √	2 √	2 √
C201.3	3 √	1 √	- √	2 √	- √	2 √	2 √	- √	- √	2 √	2 √
C201.1	3 √	1 √	- √	2 √	- √	1 √	2 √	- √	- √	1 √	1 √
C201.4	2 √	1 √	- √	1 √	- √	2 √	2 √	- √	- √	2 √	2 √
C201.5	3 √	1 √	- √	1 √	- √	2 √	1 √	- √	- √	2 √	1 √
Average	2.60	1.00	0.00	1.40	0.00	1.80	1.80	0.00	0.00	1.80	1.60

4 . course name : C202

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
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C202.1	3	∨	2	∨	2	∨	-	∨	-	∨	2	∨	1	∨	2	∨	2	∨	1	∨	2	∨
C202.2	3	∨	2	∨	1	∨	-	∨	-	∨	2	∨	1	∨	2	∨	2	∨	1	∨	2	∨
C202.3	3	∨	1	∨	1	∨	-	∨	-	∨	2	∨	1	∨	2	∨	2	∨	2	∨	2	∨
C202.4	3	∨	1	∨	2	∨	-	∨	-	∨	2	∨	1	∨	1	∨	2	∨	1	∨	2	∨
C202.5	3	∨	2	∨	1	∨	-	∨	-	∨	2	∨	1	∨	2	∨	2	∨	1	∨	2	∨
Average	3.00		1.60		1.40		0.00		0.00		2.00		1.00		1.80		2.00		1.20		2.00	

5 . course name : C301

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11											
C301.1	3	∨	3	∨	3	∨	-	∨	-	∨	-	∨	1	∨	-	∨	1	∨	-	∨	3	∨
C301.2	3	∨	3	∨	3	∨	-	∨	-	∨	-	∨	1	∨	-	∨	2	∨	-	∨	3	∨
C301.3	3	∨	3	∨	3	∨	-	∨	-	∨	-	∨	1	∨	-	∨	2	∨	1	∨	3	∨
C301.4	3	∨	3	∨	3	∨	2	∨	1	∨	-	∨	-	∨	1	∨	-	∨	-	∨	3	∨
C301.5	3	∨	3	∨	3	∨	3	∨	1	∨	2	∨	-	∨	1	∨	-	∨	1	∨	3	∨
Average	3.00		3.00		3.00		2.50		1.00		2.00		1.00		1.00		1.70		1.00		3.00	

6 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11											
C302.1	3	∨	2	∨	1	∨	1	∨	-	∨	2	∨	2	∨	2	∨	2	∨	2	∨	2	∨
C302.2	3	∨	2	∨	1	∨	1	∨	-	∨	2	∨	2	∨	2	∨	2	∨	2	∨	2	∨
C302.3	3	∨	2	∨	1	∨	1	∨	-	∨	2	∨	2	∨	2	∨	2	∨	2	∨	2	∨
C302.4	3	∨	2	∨	1	∨	1	∨	-	∨	2	∨	2	∨	2	∨	2	∨	2	∨	2	∨
C302.5	3	∨	2	∨	1	∨	1	∨	-	∨	2	∨	2	∨	2	∨	2	∨	2	∨	2	∨
Average	3.00		2.00		1.00		1.00		0.00		2.00		2.00		2.00		2.00		2.00		2.00	

7 . course name : C401

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11											
C401.1	3	∨	2	∨	2	∨	2	∨	2	∨	3	∨	-	∨	2	∨	2	∨	3	∨	3	∨
C401.2	3	∨	3	∨	3	∨	2	∨	-	∨	3	∨	2	∨	1	∨	2	∨	2	∨	3	∨
C401.3	3	∨	2	∨	3	∨	2	∨	-	∨	2	∨	2	∨	2	∨	1	∨	2	∨	3	∨

C401.4	3	3	2	-	-	2	3	3	-	2	3
C401.5	3	3	2	2	1	3	2	2	1	2	3
Average	3.00	2.60	2.40	2.00	1.50	2.60	2.25	2.00	1.50	2.20	3.00

8 . course name : C402

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C402.1	3	2	2	1	2	1	1	2	1	2	2
C402.2	3	2	3	1	2	2	1	1	1	2	1
C402.3	3	2	3	1	2	2	1	1	1	2	1
C402.4	3	2	3	1	2	2	1	1	1	2	1
C402.5	3	2	1	3	-	2	1	1	1	2	2
Average	3.00	2.00	2.40	1.40	2.00	1.80	1.00	1.20	1.00	2.00	1.40

3.1.3 Course-PO matrix of courses for all four years of study (10)

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T	3	3	0	1	0	2	0	3	2.4	1	3
BP102T	3	2	2.4	1.4	1.6	1.8	1	1.2	1	2	1.4
BP103T	3	3	3	3	0	0	0	0	0	0	3
BP104T	3	2	1	1	0	1.2	0	2	1	1	2
BP105T	1.8	1	1.4	1	2.4	2	1.4	2	1.6	1.8	1.4
BP106RB	3	3	3	0	1.7	1.25	1	1	1.7	1	3
BP201T	3	2	2.6	1	0	3	0	3	2	1	2
BP202T	3	3	3	2	0	2	2	3	1	1	3
BP203T	3	2	2	2.4	1.2	1.6	2.2	1.8	1.6	2	3
BP204T	3	2	2.2	1.6	0	2	1	2.6	3	2.4	2.8
BP205T	3	3	2.4	3	2	1.8	1.4	3	1	1	2.2
BP206T	1.4	1	1.6	1	1	1.4	1.2	1.4	1.2	2	1
BP301T	2.6	1	0	1.4	0	1.8	1.8	0	0	1.8	1.6
BP302T	3	3	3	3	0	0	0	0	0	0	3
BP303T	3	2.3	1	2.6	0	2.2	2.3	2	2.7	1	3
BP304T	3	3	3	3	0	3	0	0	2	1	3
BP401T	3	0	0	2	0	2	2	2	0	1.3	2.4
BP402T	3	1.6	1.4	0	0	2	1	1.8	2	1.2	2
BP403T	3	3	3	3	0	3	0	0	1	1	3
BP404T	3	2.8	1.8	2.4	1.75	2.4	2	1.2	1.6	1.4	2
BP405T	3	2.6	2	1	1.8	2.4	1	2.2	1.6	1	3
BP501T	3	3	3	2.5	1	2	1	1	1.7	1	3
BP502T	3	2.4	3	3	0	2	2.6	2	2.4	2	3
BP503T	3	2	1	2	2	2	1	3	3	2	3
BP504T	3	3	3	2.8	1	2.2	2	1.8	2	1.4	3
BP505T	2	2.3	2.5	0	1.8	2.4	2.6	1.8	2.4	2	3
BP601T	3	3	3	2.5	1	2	1	1	1.7	1	1
BP602T	3	2	1	1	0	2	2	2	2	2	2

BP603T	3	2.6	2.4	2	1.5	2.6	2.3	2	1.5	2.2	3
BP604T	3	3	3	2	0	2	2	2	3	2	2
BP605T	3	1.8	1	2.4	0	2	2.2	2.4	2.4	1	3
BP606T	3	3	3	2	2.2	2	2.6	1.4	1.8	1.6	3
BP701T	3	2.6	2.4	2	1.5	2.6	2.3	2	1.5	2.2	3
BP702T	3	2.8	2.6	2.6	1.8	1.4	1.3	1.4	2	0	3
BP703T	3	2.4	2.8	1.6	2.6	2.4	2.6	3	2.8	2.6	3
BP704T	3	2.8	3	3	1	2	0	0	2	3	3
BP801T	3	3	0	1	0	2	0	3	2.4	1	3
BP802T	3	2	2.4	1.4	1.6	1.6	1	1.2	1	2	1.4
BP803T	0.6	1.2	1	1	1	0.4	0.4	1	1	0	1
BP806ET	3	1.4	3	0	1.7	1.3	1	1	1.7	1	3
BP807ET	1	1.8	2	1	1.3	1	1	1.8	1	1.5	2.5
BP809ET	3	2	2.4	1.4	2	1.8	1	1.6	1	2	1.4
BP810ET	3	3	3	2.6	0	0	0	0	0	1.3	2

3.2 Attainment of Course Outcomes (40)

Total Marks 40.00

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Institute Marks : 10.00

Course outcome attainment assessment process includes direct attainment (80 %) and indirect attainment (20 %). Direct attainment includes theory assessment, practical assessment and project work assessment.

Table 3.2.1.a Internal and End Semester Mark Split up for various Courses

S. No.	Category of Course	Internal Marks	End Semester Examination Marks	Total Marks
1.	Theory Course	25	75	100
2.	Practical Course	15	35	50
3.	Project Work	25	275	300

Table 3.2.1.b Internal Assessment Process for Theory Courses

S. No.	Components for Internal Assessment Marks	Syllabus Coverage for the Test	CO Coverage	Duration of the test in Hrs	Marks (max.)
1	Sessional Examination I	1- 2.5 units	CO1, CO2, CO3	3 Hrs	75 Marks is converted to 15 Marks
2	Sessional Examination II	2.5 -5 units	CO3, CO4, CO5	3 Hrs	(Average of I & II)
Continuous Assessment Mode					
	Attendance	-		-	4
3	Academic activities (Average of 3 activities such as quiz, assignment, and seminar)	-	CO1, CO2, CO3, CO4, CO5	-	3
	Student – Teacher interaction	-		-	3
TOTAL					25

Table 3.2.1.c Internal Assessment Process for Practical Courses

S. No.	Components for Internal Assessment Marks	Marks (max.)
1	Sessional Examination I	40 Marks is converted to 10 Marks
2	Sessional Examination II	(Average of I & II)

3	Continuous Assessment Mode	
	Attendance	2
	Based on Practical Records, Regular viva voce, etc	3
TOTAL		15

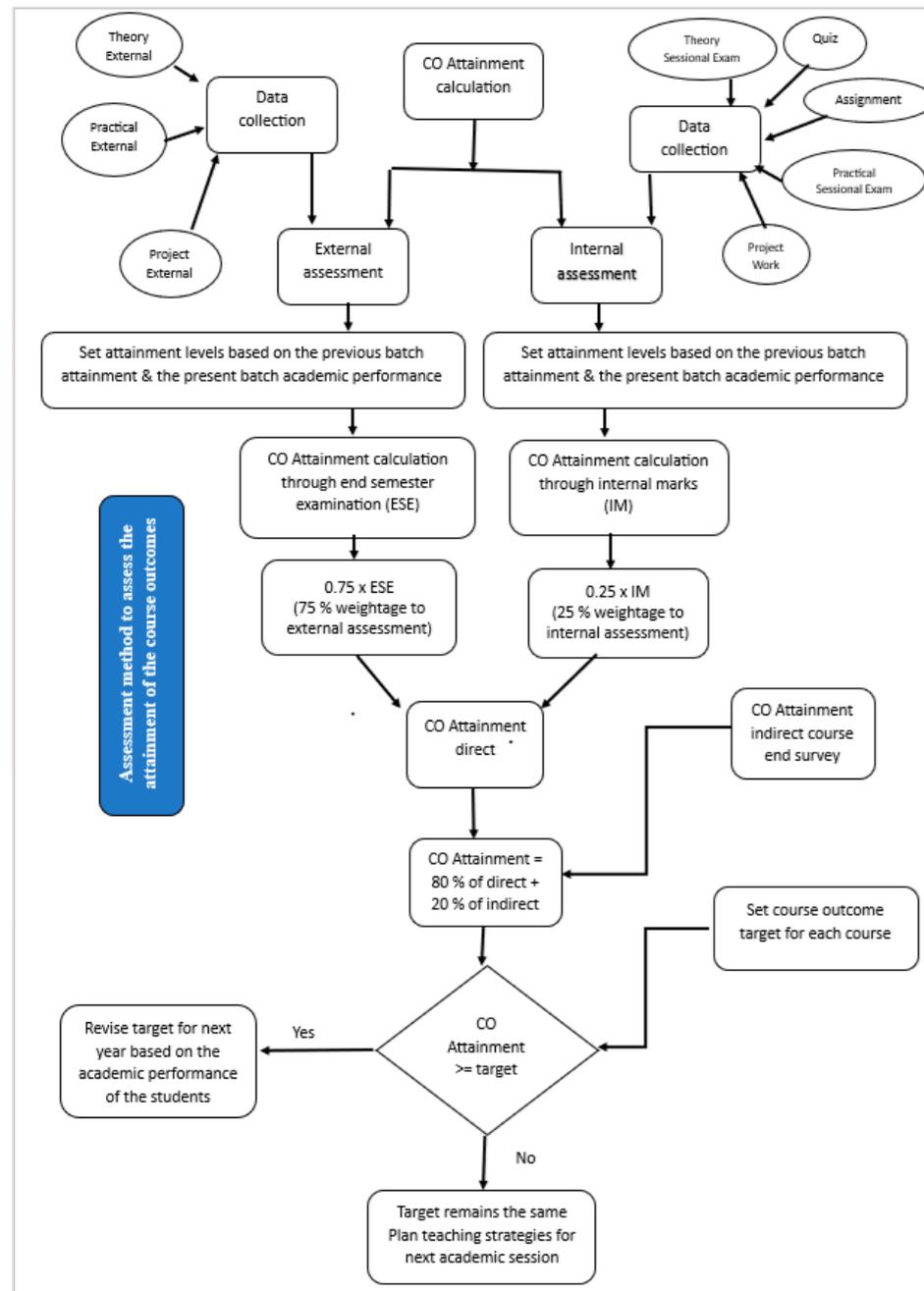


Figure 1: Process of Assessment method

Figure 1: Process of Assessment method

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (30)

Institute Marks : 30.00

Measuring Course Outcomes attained through University Examinations

Target are set in terms of percentage of students getting equal or more than the target fixed in the PAC meeting.

- Attainment Level 1: 60% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of “1”
- Attainment Level 2: 70% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of “2”
- Attainment Level 3: 80% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of “3”

Attainment is measured in terms of actual percentage of students getting set percentage of marks. If targets are achieved then all the course outcomes are attained for that year. The course is expected to set higher targets for the following years as a part of continuous improvement. If targets are not achieved, the course put in place an action plan to attain the target in subsequent years. In that case, the target remains the same.

Measuring CO attainment through Internal Assessments

Targets are set in terms of percentage of students getting more than class average marks or set by the course in each of the associated COs in the assessment (sessional exams, assignments, quiz, seminar, and projects as mapped with the COs).

Sessional exam 1 addresses CO1, CO2 & CO3. Out of the maximum 75 marks, 38 marks are associated with CO1, 37 marks are associated with CO2, and 20 marks are associated with CO3.

- Attainment Level 1: 60% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “1”
- Attainment Level 2: 70% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “2”
- Attainment Level 3: 80% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “3”

Attainment is measured in terms of actual percentage of students getting set percentage of marks. If targets are achieved, then the CO1, CO2, and CO3 are attained for the sessional 1. The course is expected to set higher targets for the following years as a part of continuous improvement. If targets are not achieved, the program should put in place an action plan to attain the target in subsequent assessment.

Sessional exam 2 addresses CO3, CO4, and CO5. Out of the maximum 75 marks for this test, 20 marks are associated with CO3, 37 marks are associated with CO4 and 38 marks are associated with CO5.

- Attainment Level 1: 60% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “1”
- Attainment Level 2: 70% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “2”
- Attainment Level 3: 80% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of “3”

Attainment is measured in terms of actual percentage of students getting set percentage of marks. If targets are achieved, then the CO3, CO4, and CO5 are attained for that sessional exam 2. The course is expected to set higher targets for the following years as a part of continuous improvement. If targets are not achieved, the course should put in place an action plan to attain the target in subsequent years.

Course Outcome Attainment

- Direct Attainment (80 % weightage)
 - Internal marks – 25 %
 - External marks – 75 %
- Indirect Attainment (20 % weightage)
 - Course end survey

 NANDHA COLLEGE OF PHARMACY, ERODE-52																										
2	Maximum Marks		75			Name of the Staff			G.Kiruthika			Name of the subject			Pharmaceutical Organic Chemistry I											
3	Total Strength		97			Class			Second Semester B.Pharm			Course code			BP202T											
4	Target Level		60%			First Sessional Theory Examination																				
5	S.No.	Name of the Student	Section - A			Section - B									Section - C									Total Marks (75)		
7			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21		Q22	
8			CO1	CO2	CO3	CO1	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO3	CO1	CO1	CO1	CO1	CO1	CO1	CO2	CO2	CO2		CO2	CO2
9			10	10	10	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	2	2		2	2
11	1	ABISHEK	8	9	_	4	3	2	4	_	3	3	_	3	2	1.5	1	1	1	1	1.5	2	1.5	1.5	53	
12	2	AKILAN	9	9	_	2	2	3.5	_	3.5	_	_	4	_	2	2	1.5	2	1.5	2	_	1.5	2	1.5	49	
13	3	ANISH	9	_	_	1	1.5	_	3.5	3.5	4	4	4	_	2	2	2	2	2	1.5	1.5	2	1.5	2	49	
14	4	ANUDEEP	_	9	_	0	_	4	4	3.5	_	3	4	3.5	2	2	2	2	2	1.5	2	2	1.5	2	50	
15	5	ARUNKUMAR	9	8	_	4	_	4	_	4	3.5	3.5	_	_	2	0	2	2	2	2	0	1.5	2	1.5	51	
16	6	ASHIKA JOHN	8	_	_	4	_	4	3	1	4	4	3.5	_	2	2	1.5	2	2	2	2	1	_	1	47	
17	7	BENJAMIN	9	9	_	3	4	_	2	3	4	_	3	1	2	1.5	1.5	1	1	1	_	1	_	1	48	
18	8	BOOBALAN	9	8	_	3.5	2	3	3.5	_	4	_	3.5	3.5	2	_	2	2	2	_	_	_	_	_	48	
19	9	DEENAPRIYAN	8	7	_	3	_	4	4	2	_	3.5	3	2	1.5	1	1	1	1	1	1	1	_	_	45	
20	10	DEEPASRI	9.5	9.5	_	3	3	3	4	_	2	2	4	_	2	2	2	2	2	2	2	2	_	2	58	
21	11	DEVAN	9.5	9.5	_	4	_	4	4	3	4	_	1	3	2	0	0	2	2	2	0	2	1	0	53	
22	12	DHANUSHKUMAR		9		4		4	4			1	4	4	2	2	2	2	2	2	2	2	2	1	49	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
96	86	THARANI.L	8	8	_	4	4	4	4		4	_	4	_	2	2	1	2	2	2	2	2	2	_	57
97	87	THENMOZHI	8	8	_	3	_	4	3	4	3	_	4	4	0	1	0	2	2	2	2	2	2	2	56
98	88	THILLAIKARASI	8	8	_	4	4	4	4	4	4	4	_	_	2	0	1	2	2	2	2	2	_	_	57
99	89	UMAMAHESHWARI	8	8	_	4	4	4.5	4	4	4	_	_	4	_	_	2	2	1.5	2	2	2	2	0	58
100	90	VAISHNAVI	8	8	_	4.5	4.5	4.5	4.5	_	4.5	_	4.5	4	2	2	2	2	2	1	1	1	1	2	63
101	91	VIGNESH	9	9	_	4	4	4	4	_	4	3	_	1	2	2	2	0	2	2	_	1	1	1	55
102	92	VISHAL	9.5	9.5	_	4.5	_	4	4	_	4	4	0	4	2	2	2	2	2	2	2	2	2	2	54
103	93	VISHWA.M	8	9	_	4	4	4	_	4	4	4	_	_	2	1	1	1	1	1	1	1	1	1	52
104	94	VISHWA.S	8	8	_	4	_	4	2		4	_	4	_	2	1	2	_	2	0	0	2	0	_	43
105	95	WAJITH	8	_	9	4	_	_	4	0	4	_	0	4	2	1	2	2	0	2	0	_	2	_	44
106	96	YAGAVENDHAN	9.5	8	_	4	_	4	4	_	4	4	_	2	2	2	2	2	2	2	2	2	2	1	49
107	97	YOGESH	8	_	9.5	4	4	4	4	4	4	_	_	3	_	_	1	1	1.5	1	1	2	2	0	54

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22
109		CO1	CO2	CO3	CO1	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO2	CO1	CO1	CO1	CO1	CO2	CO3	CO3	CO3	CO3	CO3
110		10	10	10	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	2	2	2
111	Total No. of students attended the question	91	90	3	93	65	63	85	57	69	65	64	66	97	97	97	97	97	97	97	97	97	97
112		799.5	753.5	27	354.5	238	230.5	328	203	255	223.5	218	211.5	177	128	149.5	152.5	149	155.5	129	144	114.5	115
113	Class Average	8.79	8.37	9.00	3.81	3.66	3.66	3.86	3.56	3.70	3.44	3.41	3.20	1.82	1.32	1.54	1.57	1.54	1.60	1.33	1.48	1.18	1.19

	COs	CO1	CO2	CO3
116	Total marks	38	37	20
117	Class Average	30.03	27.215	15.78
118	Out of 15	0.12	0.11	0.12

1st Sessional Exam



NANDHA COLLEGE OF PHARMACY, ERODE-52

Maximum Marks		75			Name of the Staff			G.Kiruthika			Name of the subject			Pharmaceutical Organic Chemistry I										
Total Strength		97			Class			Second Semester B.Pharm			Course code			BP202T										
Target Level		60%			Second Sessional Theory Examination																			
S.No.	Name of the Student	Section - A			Section - B								Section - C									Total Marks (75)		
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20		Q21	Q22
		CO3	CO4	CO5	CO3	CO3	CO3	CO4	CO4	CO4	CO5	CO5	CO5	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO5		CO5	CO5
		10	10	10	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	2		2	2
1	ABISHEK	8	9	—	4	3	2	4	—	3	3	—	3	2	1.5	1	1	—	1	1.5	2	1.5	1.5	52
2	AKILAN	9	9	—	2	2	3.5	—	3.5	—	—	4	—	2	2	1.5	2	1.5	2	—	1.5	2	1.5	49
3	ANISH	9	—	—	4	3.5	—	3.5	3.5	4	3	4	—	2	2	2	2	2	1.5	1.5	2	1.5	2	53
4	ANUDEEP	—	9	—	4	—	4	3	3.5	—	4	4	3.5	2	2	2	2	2	1.5	2	2	1.5	2	54
5	ARUNKUMAR	9	8	—	4	—	4	—	4	3.5	3.5	—	—	2	2	0	2	2	2	1	1.5	2	1.5	52
6	ASHIKA JOHN	8	—	—	4	—	4	3	—	4	4	3.5	—	2	2	1.5	2	2	2	2	1	1	1	47
7	BENJAMIN	9	9	—	3	4	—	2	3	4	—	3	1	2	1.5	1.5	1	—	1	—	1	1	1	48
8	BOOBALAN	9	8	—	3.5	2	3	3.5	—	4	—	3.5	3.5	2	—	2	2	2	—	2	1	2	—	53
9	DEENAPRIYAN	8	7	—	3	—	4	4	2	—	3.5	3	2	1.5	1	1	1	1	1	1	1	—	—	45
10	DEEPASRI	9.5	9.5	—	4	4	4	4	—	4	2	4	—	2	2	2	2	2	2	2	2	—	2	63
11	DEVAN	9.5	9.5	—	4	—	4	4	—	4	—	1	3	2	2	2	2	2	2	2	2	2	2	59
12	DHANUSHKUMAR	9	—	—	4	—	4	4	—	—	—	4	4	2	2	2	2	2	2	2	2	2	1	48
13	DHIVYA	—	9	—	4	—	4	—	4	2	3	—	4	2	2	2	2	2	2	1.5	2	1.5	2	49
14	ELAYABHARATHI	8.5	9.5	—	4	—	4	4	4	—	4	4	2	—	0	2	2	2	0	2	0	2	0	54
15	GOKUL.P	9.5	9	—	4.5	—	2	3	—	2	—	1	1.5	2	0	1	1.5	1.5	1.5	1.5	0	1.5	0	43

[Sessional 1](#) |
 [Sessional 2](#) |
 [Sessional](#) |
 [Continuous Ass.](#) |
 [End Sem \(75m\)](#) |
 [Course End Survey](#) |
 [Indirect Att.](#) |
 Overall ... (+)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
97	87	THENMOZHI	8	8	—	4	—	4	4	4	4	—	4	4	2	1	2	2	2	—	2	0	2	—	57	
98	88	THILLAIKARASI	8	8	—	4	4	4	4	4	4	4	—	—	2	2	2	2	2	2	2	1	—	—	59	
99	89	UMAMAHESHWARI	9	9	—	4	4	4.5	3	4	4	—	—	4	—	—	2	2	1.5	1	1	1	2	0	56	
00	90	VAISHNAVI	9	9	—	4	4	4	4	—	4	—	—	4	0	2	2	2	2	2	2	2	2	2	60	
01	91	VIGNESH	9	9	—	4	4	4	4	—	4	—	—	4	2	2	1	2	1	—	1	1	1	1	54	
02	92	VISHAL	—	9.5	8	4	—	—	4	—	4	4	0	4	2	2	2	2	2	2	2	1.5	1	1	55	
03	93	VISHWA.M	8	—	9	4	4	4	—	4	4	4	—	—	1	1	2	1	2	1	2	1	2	2	56	
04	94	VISHWA.S	—	8	9	4	—	4	4	—	4	—	4	3	2	1	2	—	2	0	0	2	0	—	49	
05	95	WAJITH	8	—	8	4	—	—	4	4	4	—	0	4	2	1	0	2	2	0	2	1	2	—	48	
06	96	YAGAVENDHAN	—	8	—	4	—	4	4	—	4	4	—	2	2	2	1	2	1	2	1	2	—	—	43	
07	97	YOGESH	8	—	9	4	4	4	4	4	4	—	—	4	—	—	2	2	2	2	1	2	2	0	58	

08																											
09																											
10			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22			
11			CO3	CO4	CO5	CO3	CO3	CO4	CO4	CO4	CO5	CO5	CO5	CO5	CO4	CO5	CO5	CO5	CO5								
12			10	10	10	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	2	2	2	2		
13		Total No. of students attended the question	86.00	86.00	6.00	95.00	62.00	68.00	84.00	57.00	50.00	62.00	62.00	67.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00		
14			768.50	736.00	51.50	377.50	242.00	247.00	330.00	217.00	249.00	277.50	209.00	226.50	172.50	139.50	153.00	166.50	156.50	157.50	146.50	147.50	125.00	124.00			
15		Class Average	8.94	8.56	8.58	3.97	3.90	3.63	3.93	3.81	4.98	4.48	3.37	3.38	1.78	1.44	1.58	1.72	1.61	1.62	1.51	1.52	1.29	1.28			
16																											
17																											
18			COs	CO3	CO4	CO5																					
19			Total marks	20.00	37.00	38.00																					
20			Class Average	16.81	29.67	30.39																					
21			Out of 15	0.13	0.12	0.12																					

2nd Sessional Exam



NANDHA COLLEGE OF PHARMACY, ERODE-52

Second Semester B.Pharm

BP202T: Pharmaceutical Organic Chemistry 1

Continuous Assesment for Internal Marks

S.No.	Name of the Student	Assignment	Quiz	Seminar	Assignment	Quiz	Average
		CO1	CO2	CO3	CO4	CO5	
1	ABISHEK	8	9	8	7	9	8.2
2	AKILAN	10	10	9	9	10	9.6
3	ANISH	7	7	8	8	7	7.4
4	ANUDEEP	9	10	9	7	10	9
5	ARUNKUMAR	8	8	9	8	9	8.4
6	ASHIKA JOHN	8	9	8	9	8	8.4
7	BENJAMIN	9	9	8	9	9	8.8
8	BOOBALAN	9	9	7	9	9	8.6
9	DEENAPRIYAN	9	10	9	9	8	9
10	DEEPASRI	7	7	8	7	8	7.4
11	DEVAN	8	8	8	8	7	7.8
12	DHANUSHKUMAR	9	9	8	7	10	8.6
13	DHIVYA	9	9	9	10	9	9.2
14	ELAYABHARATHI	9	9	8	10	9	9
15	GOKUL.P	9	9	8	8	9	8.6
16	GOKULS	8	8	8	8	9	8.2
17	GOPINATH	8	8	8	9	7	8
18	GOWSUGI	7	7	9	8	8	7.8
	▶	Sessional 1	Sessional 2	Sessional	Continuous Ass.	End Sem (75m)	Course End Survey

78	SRINATH	9	8	9	9	9	8.8
79	STALIN	9	8	8	8	10	8.6
80	SUDHAN	7	8	7	8	7	7.4
81	SUJITHA	9	8	8	8	10	8.6
82	SUMAN SANDEEP	9	10	9	8	8	8.8
83	SURENDRAN	9	9	8	9	9	8.8
84	TAMIL KUMARAN	8	8	8	8	8	8
85	THAARANI.M	8	7	8	8	8	7.8
86	THARANI.L	7	8	8	9	9	8.2
87	THENMOZHI	9	7	9	8	10	8.6
88	THILLAIKARASI	9	10	8	8	9	8.8
89	UMAMAHESHWARI	8	7	8	8	8	7.8
90	VAISHNAVI	8	9	9	7	7	8
91	VIGNESH	8	8	8	8	8	8
92	VISHAL	9	9	8	9	9	8.8
93	VISHWA.M	7	8	7	7	8	7.4
94	VISHWA.S	8	10	7	8	9	8.4
95	WAJITH	8	8	8	9	9	8.4
96	YAGAVENDHAN	9	7	9	8	10	8.6
97	YOGESH	8	9	9	7	9	8.4
	Class Average	8.25	8.48	8.09	8.16	8.63	8.32
	Converting to 3-point Scale	2.48	2.55	2.43	2.45	2.59	2.50
	Converting to 10 %	0.25	0.25	0.24	0.24	0.26	0.25
	▶	Sessional 1	Sessional 2	Sessional	Continuous Ass.	End Sem (75m)	Course End Survey

Continuous Assessment for Internal Marks



NANDHA COLLEGE OF PHARMACY, ERODE-52

Second Semester B.Pharm

BP202T: Pharmaceutical Organic Chemistry I

End Semester Examination Marks

S.No.	Name of the Student	Max. 75 marks
1	ABISHEK	35
2	AKILAN	AB
3	ANISH	40
4	ANUDEEP	38
5	ARUNKUMAR	30
6	ASHIKA JOHN	12
7	BENJAMIN	32
8	BOOBALAN	40
9	DEENAPRIYAN	26
10	DEEPASRI	54
11	DEVAN	56
12	DHANUSHKUMAR	39
13	DHIVYA	50.5
14	ELAYABHARATHI	41
15	GOKUL.P	51
16	GOKULS	54

▶ Sessional 1 | Sessional 2 | Sessional | Continuous Ass. | En

76	SONAL	67
77	SREE SUBIKSHA	46
78	SRINATH	26
79	STALIN	33.5
80	SUDHAN	44
81	SUJITHA	42
82	SUMAN SANDEEP	32
83	SURENDRAN	40
84	TAMIL KUMARAN	31
85	THAARANI.M	58
86	THARANI.L	40
87	THENMOZHI	33
88	THILLAIKARASI	37
89	UMAMAHESHWARI	62
90	VAISHNAVI	48
91	VIGNESH	38
92	VISHAL	54
93	VISHWA.M	55.5
94	VISHWA.S	47
95	WAJITH	5
96	YAGAVENDHAN	51
97	YOGESH	53
	Class Average	44.4
	Converting to 3-point Scale	1.78

End Semester Examination Marks



NANDHA COLLEGE OF PHARMACY, ERODE-52

Second Semester B.Pharm

BP202T: Pharmaceutical Organic Chemistry 1

Course End Survey

S.No.	NAME OF THE STUDENT	CO1	CO2	CO3	CO4	CO5
1	ABISHEK	3	3	2	2	3
2	AKILAN	2	3	3	3	2
3	ANISH	3	3	3	3	3
4	ANUDEEP	3	3	3	3	3
5	ARUNKUMAR	3	3	3	3	3
6	ASHIKA JOHN	2	2	3	3	2
7	BENJAMIN	3	3	3	3	3
8	BOOBALAN	3	3	3	3	3
9	DEENAPRIYAN	3	3	3	3	3
10	DEEPASRI	3	3	2	2	3
11	DEVAN	3	3	3	3	3
12	DHANUSHKUMAR	2	3	3	3	3
13	DHIVYA	3	3	3	3	3
14	ELAYABHARATHI	2	3	3	3	3
15	GOKUL.P	3	3	3	3	3
16	GOKUL.S	3	3	3	3	3
17	GOPINATH	3	2	3	2	2
18	GOWSUGI	3	3	3	3	3
19	GOWTHAM.K	3	2	2	3	3

Sessional 1 | Sessional 2 | Sessional | Continuous Ass. | End Sem (75m)



NANDHA COLLEGE OF PHARMACY, ERODE-52

Second Semester B.Pharm

BP202T: Pharmaceutical Organic Chemistry 1

Indirect Attainment

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PSO 1	PSO 2		
CO 1	3	3	3	2	-	-	2	3	-	-	3	2	1	2.11	0.70
CO 2	3	3	3	3	-	-	2	3	-	-	3	2	1	2.08	0.69
CO 3	3	3	3	2	-	-	2	3	-	-	3	2	1	2.14	0.71
CO 4	3	3	3	2	-	-	2	3	1	1	3	2	1	2.08	0.69
CO 5	3	3	3	2	-	2	-	3	1	-	3	2	1	2.10	0.70
	2.1	2.1	2.1	1.4	-	-	1.4	2.1	-	-	2.1	1.4	0.7		
	2.1	2.1	2.1	2.1	-	-	1.4	2.1	-	-	2.1	1.4	0.7		
	2.1	2.1	2.1	1.4	-	-	1.4	2.1	-	-	2.1	1.4	0.7		
	2.1	2.1	2.1	1.4	-	-	1.4	2.1	0.7	0.7	2.1	1.4	0.7		
	2.1	2.1	2.1	1.4	-	1.4	-	2.1	0.7	-	2.1	1.4	0.7		
Average	2.1	2.1	2.1	1.5	-	1.4	1.4	2.1	0.7	0.7	2.1	1.4	0.7		
	Sessional 1	Sessional 2	Sessional	Continuous Ass.	End Sem (75m)	Course End Survey	Indirect Att.	Overall ..							

Indirect Attainment

	A	B	C	D	E	F
 NANDHA COLLEGE OF PHARMACY, ERODE-52						
Second Semester B.Pharm						
BP202T: Pharmaceutical Organic Chemistry 1						
Overall Attainment						
Sessional Exam (15)	0.12	0.11	0.13	0.12	0.12	
Continuous Mode (10)	0.08	0.08	0.08	0.08	0.09	
End Semester Exam (75)	0.44	0.44	0.44	0.44	0.44	
Direct (15% + 10% +75%)	0.64	0.63	0.65	0.64	0.65	
Direct (80 %)	0.512	0.504	0.52	0.512	0.52	
Direct 80 % (3-point scale)	1.54	1.51	1.56	1.54	1.56	
Indirect 20 % (3-point scale)	0.57	0.57	0.58	0.54	0.54	
Overall Attainment (80 % + 20 %)	2.11	2.08	2.14	2.08	2.10	
Overall Attainment %	70.20	69.40	71.33	69.20	70.00	
TARGET (60 %)	Attained	Attained	Attained	Attained	Attained	

Overall Attainment

Attainment through End Semester Examination

- The value of attainment level on 3-point scale is less than 1 - Attainment is low.
- The value of attainment level on 3-point scale is greater than or equal to 1 - Attainment is moderate.
- The value of attainment level on 3-point scale is greater than or equal to 2 - Attainment is substantial.
- Here in End Semester Examination, 3-point scale value is 1.8
- Then, the attainment level of end semester examination is **Moderate**.

Attainment through Sessional Examination

- The value of attainment level on 3-point scale is less than 1 - Attainment is low.
- The value of attainment level on 3-point scale is greater than or equal to 1 - Attainment is moderate.
- The value of attainment level on 3-point scale is greater than or equal to 2 - Attainment is substantial.
- Here in Sessional Examination, 3-point scale value is 2.2
- Then, the attainment level of Sessional Examination is **Substantial**.

Attainment through Continuous Assessment

- The value of attainment level on 3-point scale is less than 1 - Attainment is low.
- The value of attainment level on 3-point scale is greater than or equal to 1 - Attainment is moderate.
- The value of attainment level on 3-point scale is greater than or equal to 2 - Attainment is substantial.
- Here in Sessional Examination, 3-point scale value is 2.5.
- Then, the attainment level of Sessional Examination is **Substantial**.

Overall Attainment

- Overall attainment is calculated by considering both direct and indirect attainment values. Direct attainment includes Sessional Examination, Assignments, Quiz, Seminar, and End Semester Examination. Indirect attainment is obtained through Course End Survey.

Direct Assessment

- 75 % Weightage of End Semester Examination + 15 % Weightage of Sessional Examinations + 10 % Weightage of Assignments, Quiz & Seminars
- = 75 % of (1.8) + 15 % of (2.2) + 10 % of (2.5)
- = 1.35 + 0.33 + 0.3 = 2
- As the value of direct attainment level on 3-point scale is equal to 2, direct attainment is **substantial**.

Indirect Attainment

- The value of Course End Survey on 3-point scale is less than 1 - Attainment is low.
- The value of Course End Survey on 3-point scale is greater than or equal to 1 - Attainment is moderate. The value of Course End Survey on 3 point scale is greater than or equal to 2 - Attainment is substantial
- Here in Course End Survey, three-point scale value is 2.8.
- As the value of indirect attainment level on 3-point scale is greater than 2, indirect attainment (Course End Survey) is **substantial**.

Overall Attainment = 80% of Direct Attainment + 20% of Indirect Attainment

- = 80% of 2 + 20% of 2.8
- = 1.6 + 0.56
- = 2.16

As the value of overall attainment level on 3-point scale is greater than 2 - Attainment is substantial. Therefore, **Overall Attainment** of the course Pharmaceutical Organic Chemistry I (BP202T) is **substantial**.

Attainment of CO/PO

Course Code	Name of the Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
BP101T	Human Anatomy and Physiology I	3	-	-	-	1	1	-	1	-	-	2	2	3
BP102T	Pharmaceutical Analysis I	2	1	2	1.33	1	-	1	-	-	-	2	1.5	1
BP103T	Pharmaceutics I	2.6	0.8	1.4	1	0.4	0.6	0.8	0.8	1.2	0.4	2.6	1	2
BP104T	Pharmaceutical Inorganic Chemistry	3	-	1	0.6	-	-	-	-	-	0.3	1	1.2	1

BP105T	Communication skills	-	0.6	-	-	1.8	1.2	0.4	2	-	-	-	1	1.5
BP106RBT	Remedial Biology	1	2	1	-	-	-	-	1	-	-	1	1	0.5
BP106RMT	Remedial Mathematics	1	-	-	1	-	1	-	1	-	-	1	0.5	1
BP107P	Human Anatomy and Physiology I	3	1	2	1.3	-	1	-	0.6	-	-	1	3	2
BP108P	Pharmaceutical Analysis I	3	2	1.75	1	1	-	0.5	0.6	-	-	2	1.75	2
BP109P	Pharmaceutics I	2	2	1	2	1	1	1	1	1	1	2	2	1.5
BP110P	Pharmaceutical Inorganic Chemistry	3	-	1	0.66	-	-	-	-	-	1	1	1	1.2
BP111P	Communication skills	-	-	-	-	1	-	-	1.75	-	-	-	1	0.75
BP112RBP	Remedial Biology	1	2	1	1	-	-	-	1	-	-	1	1	-
BP201T	Human Anatomy and Physiology II	3	-	-	-	-	1	-	1	-	-	1	1.5	0.5
BP202T	Pharmaceutical Organic Chemistry I	3	-	2	0.33	-	-	-	-	-	1.33	2	1	2
BP203T	Biochemistry	2	2.75	1.5	0.5	-	-	-	-	-	-	2	1	1.5
BP204T	Pathophysiology	2	-	-	-	-	1.33	-	1	0.66	-	1	1	1.2
BP205T	Computer Applications in Pharmacy	2	1.2	1.4	1	-	0.5	0.5	2	1	1.4	2	1	3
BP206T	Environmental sciences	2	0.5	-	-	0.5	0.5	-	-	0.75	2	2	1	3
BP207P	Human Anatomy and Physiology II	3	-	-	2	0.25	-	-	-	-	2	2	1	1
BP208P	Pharmaceutical Organic Chemistry I	3	-	2	0.25	-	-	-	-	-	2	2	2	1
BP209P	Biochemistry	3	2	2	2	-	-	-	-	-	1	0.66	1	0.75
BP210P	Computer Applications in Pharmacy	2	2.2	2.4	0.8	-	0.4	0.4	1.2	1	1	2.4	1	3
BP301T	Pharmaceutical Organic Chemistry II	3	-	1	-	-	-	-	-	-	1	2	1	3
BP302T	Physical Pharmaceutics I	3	1	1.6	1.8	0.4	0.6	-	-	-	1.2	2.2	-	1
BP303T	Pharmaceutical Microbiology	2	1.8	2	2.4	1.6	1	-	0.6	2.4	0.8	2	1	3
BP304T	Pharmaceutical Engineering	3	1	1	3	1	1	1	1	0.2	1.2	1	2	-
BP305T	Pharmaceutical Organic Chemistry II	3	-	2	-	-	-	-	-	-	3	2	1	2
BP306T	Physical Pharmaceutics I	3	3	3	3	2	1	1	1	1	1.4	0.8	1	1
BP307T	Pharmaceutical Microbiology	2	2.25	2	1.8	0.5	1	1	0.75	1.8	1.2	1	2	1
BP308T	Pharmaceutical Engineering	2	3	3	3	1	1	1	1	1	1	1	3	1
BP401T	Pharmaceutical Organic Chemistry III	3	-	1.3	1.3	-	-	-	-	-	-	-	1	3

BP402T	Medicinal Chemistry I	3	0.25	2	0.5	-	-	-	-	-	-	1	2	1
BP403T	Physical Pharmaceutics II	3	2	-	2	-	-	-	-	-	1	-	1	1
BP404T	Pharmacology I	3	2.8	2.3	1.3	2.1	3	1.3	2.4	1.6	-	2.1	2	1.5
BP405T	Pharmacognosy and Phytochemistry I	2	2	1.25	1.75	0.25	1	0.5	-	2	2.5	1.75	3	-
BP406P	Medicinal Chemistry I	2	2	2	-	-	-	-	-	1	2	2	3	1
BP407P	Physical Pharmaceutics II	2	1.5	3	2	-	1	1	1	1	1	2	1	2
3BP408P	Pharmacology I	3	1.6	1	3	-	0.3	1.6	2	0.6	-	2	2	3
BP409P	Pharmacognosy and Phytochemistry I	3	3	3	1	0.5	1	1	2	2	2	2	1	3
BP501T	Medicinal Chemistry II	3	-	1	-	-	1	0.14	1	1.4	-	1	2	1
BP502T	Industrial Pharmacy I	2.6	2	1.6	3	-	0.4	1.2	1.6	0.4	-	1	1.8	2
BP503T	Pharmacology II	2	2	3	2	2	2	1.8	2	1.8	1	1.8	1	3
BP504T	Pharmacognosy and Phytochemistry II	2	2	3	2	2	1.8	1	2	1.8	1.8	1	2	1
BP505T	Pharmaceutical Jurisprudence	3	3	1	1	1	1	1	0.4	1	0.2	2	2	3
BP506P	Industrial Pharmacy I	3	1	1	-	1	2.5	3	2	2	0.75	1	2	-
BP507P	Pharmacology II	3	1.7	1.7	2	1	1	-	-	-	1	2	2	-
BP508P	Pharmacognosy and Phytochemistry II	3	2.2	2.4	1	2.2	-	1	0.6	-	-	1	2	3
BP601T	Medicinal Chemistry III	1.8	1.1	1.2	0.3	-	1.1	1.6	0.6	0.8	1	2	1	-
BP602T	Pharmacology III	2	1.6	1	0.6	0.3	1.5	0.3	0.6	0.8	2	1	-	1
BP603T	Herbal Drug Technology	3	2	2	2.2	2.8	2	2	1	2	1	2	2	1.9
BP604T	Biopharmaceutics and Pharmacokinetics	3	2	2	2	1	1	1	2	1.2	1	2	1.6	1
BP605T	Pharmaceutical Biotechnology	3	0.5	1	2	-	1.5	1.75	1.8	2	1	1	2	1
BP606T	Quality Assurance	3	1	-	0.7	3	2.5	1	1	1	2	0.7	0.6	-
BP607P	Medicinal Chemistry III	2	1	2	-	3	2.5	1	1.6	0.5	0.7	1	-	1
BP608P	Pharmacology III	2	1	1	1	0.7	0.5	1.56	0.6	0.7	-	-	1	1
BP609P	Herbal Drug Technology	1	2	1	-	2	0.6	1.15	2.5	1	1	1	2	3
BP701T	Instrumental Methods of Analysis	2	1	1	2	2	3	1.5	-	-	1	1	1	1
BP702T	Industrial Pharmacy II	1	1	1	2	2	1.5	1.5	1	2	1	1	-	1
BP703T	Pharmacy Practice	-	-	1.5	0.6	0.5	1	1	-	1	2	1	1	1

BP704T	Novel Drug Delivery System	2	1	1	-	1	1	1.5	1	1	-	1	2	-
BP705P	Instrumental Methods of Analysis	0.5	1	0.6	2	2	2	1	1	1	1.5	1	3	-
BP801T	Biostatistics and Research Methodology	1.3	0.5	0.1	-	1	1	-	2	2	1	-	1	1
BP802T	Social and Preventive Pharmacy	0.6	0.3	1.5	0.3	0.6	1	2	1	1	-	1	1	1
BP803T	Pharma Marketing Management	1	0.5	1.56	0.6	0.7	1	1	2	1	1	1	1.5	1
BP804T	Pharmaceutical Regulatory Science	1	2.5	3	2	2	0.75	1	2	-	0.75	1	2	-
BP805T	Pharmacovigilance	1	1	-	1	2.5	3	2	2	0.75	1	1	2	-
BP806T	Quality Control and Standardization of Herbals	1	0.6	-	-	1	2	3	2	1.8	1.8	2	2	1.8
BP807T	Computer Aided Drug Design	3	2	2	0.75	1	2	3	1.7	1.7	2	1	1	-
BP808T	Cell and Molecular Biology	1	1.5	1	1	-	0.6	0.5	1	1	-	1	2	1
BP809T	Cosmetic Science	0.4	1	0.2	2	2	1.5	-	1	1	-	1	2.5	1
BP810T	Experimental Pharmacology	1	1	1	2	1	0.6	2	1.8	1.8	1	2	1.8	1.8
BP811T	Advanced Instrumentation Techniques	2	2	1.8	1	2	1	1	1	1.5	1	3	-	-
BP812T	Dietary Supplements and Nutraceuticals	1	-	1	2	1.8	1.8	2	2	1	-	1	1	2

Note: Correlation levels 1, 2 or 3, as defined below: 1: Slight (Low); 2: Moderate (Medium); 3: Substantial (High). If there is no correlation, put '-'

*It may be noted that contents of Table 3.1.2 must be consistent with information available in Table 3.1.3 for all the courses.

3.3 Attainment of Program Outcomes (40)

Total Marks 40.00

3.3.1 Describe assessment tools and processes used for assessing the attainment of each PO (10)

Assessment tools used for measuring the attainment of POs and PSOs

Microsoft Excel program that simplifies CO, PO and PSO attainment calculation is used to evaluate the PO and PSO.

Direct Assessment

- PO Assessment Tools are categorized into direct and indirect methods to assess the Program Outcomes and Program Specific Outcomes.
- Sessional examinations, continuous mode assessment, and end semester examinations are used for CO calculation. The PO-CO values calculated for individual course are formulated and summed for assessing the POs. The weighted average of the POs for all the courses are calculated.

Indirect Assessment

- The student exit survey is a questionnaire prepared by faculty member and answered by every individual student about the program after the completion of program. This is collected from the graduating students of that year.
- The Alumni survey is obtained from alumni students of the department during annual alumni meet, DAB and Governing body meeting.
- The employer's survey is obtained from the recruiters of the department during placement drives, industrial visits, PAC and DAB meetings, and MOU interactions.
- The final PO attainment is sum of the direct assessment (80 %) and indirect assessment (20 %) surveys.

Table.3.3.1. a Assessment Processes

Assessment Tools	Direct / Indirect	Remarks
Course Evaluation (Theory & Practical)	Direct	<ul style="list-style-type: none"> • Courses are evaluated through internal assessment examinations and end semester examinations • Other modes of evaluation are assignments, quiz, seminars, attendance, and student teacher interaction
Project Evaluation	Direct	Project evaluation is conducted periodically and at the end of the semester.
Course End Survey	Indirect	Course Survey is collected at the end of each semester Alumni Survey and Indirect Alumni Survey are collected at the end of each academic year
Student Exit Survey	Indirect	Student Exit Survey is collected from the Graduates
Alumni Survey	Indirect	Alumni Survey is collected from Alumni
Employer Survey	Indirect	Employer Survey is collected from employer of Alumni

INDIRECT ATTAINMENT**Student Exit Survey**

NANDHA COLLEGE OF PHARMACY, ERODE-638052

STUDENT FEED BACK FORM- INDIRECT ATTAINMENT OF PROGRAMME OUTCOMES

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* Indicates required question

Email *

Record drtpappa@gmail.com as the email to be included with my response

NAME OF THE STUDENT

Your answer

PROGRAMME *

- B.Pharm
 M.Pharm
 Pharm.D

BATCH *

- 2021-2025
 2022-2026
 2023-2027
 2024-2028

Mobile No

Your answer

Email.I.D

Your answer

YEAR/SEMESTER *

- First semester

Your answer

Note

Correlation levels- 1, 2, and 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

1. To what extent did the program enhance your foundational knowledge in pharmaceutical sciences (e.g., pharmacology, medicinal chemistry, pharmaceuticals)? (PO1)

- 1
 2
 3

2. How did the program's focus on planning abilities benefit you in your professional life?(PO2)

- 1
 2
 3

3. How has the training in problem analysis benefited you in your role as a pharmacy professional? (PO3)

- 1
 2
 3

4. How has your knowledge of modern tools impacted your efficiency and effectiveness in the pharmacy profession?(PO4)

- 1
 2
 3

- 2
 3

7. How has the training in pharmaceutical ethics influenced your approach to professional and social responsibilities? (PO7)

- 1
 2
 3

8. How well did the program prepare you to communicate effectively with patients, healthcare professionals, and the public? (PO8)

- 1
 2
 3

9. How has the training in assessing societal, health, and legal issues influenced your approach to pharmacy practice? (PO9)

- 1
 2
 3

10. How has the program's focus on environmental and sustainability issues influenced your approach to pharmacy practice? (PO10)

- 1
 2
 3

11. How has your experience with life-long learning influenced your professional practice since graduating? (PO11)

- 1
 2
 3

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ALUMNI SURVEY:

NANDHA COLLEGE OF PHARMACY ERODE -638052

ALUMNI
FEED BACK FORM- INDIRECT ATTAINMENT
OF PROGRAMME OUTCOMES

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Not shared

* Indicates required question

NAME OF THE STUDENT *

Your answer _____

PROGRAMME *

- B.Pharm
 M.Pharm
 Pharm.D

BATCH *

- 2021-2025
 2020-2024
 2019-2023
 2018-2022

Phone Number *

Your answer _____

Email *

Your answer _____

Year/semester *

- Academician
 Pharmacists
 Production

Note

Correlation levels- 1, 2, and 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

1. To what extent did the program enhance your foundational knowledge in pharmaceutical sciences (e.g., pharmacology, medicinal chemistry, pharmaceuticals)? (PO1)

- 1
 2
 3

2. How did the program's focus on planning abilities benefit you in your professional life?(PO2)

- 1
 2
 3

3. How has the training in problem analysis benefited you in your role as a pharmacy professional? (PO3)

- 1
 2
 3

4. How has your knowledge of modern tools impacted your efficiency and effectiveness in the pharmacy profession?(PO4)

- 1
 2
 3

5. How have the leadership skills you developed in the program influenced your professional practice? (PO5)

- 1
 2
 3

6. How has your understanding of your professional role impacted your approach to pharmacy practice? (PO6)

- 1
 2
 3

7. How has the training in pharmaceutical ethics influenced your approach to professional and social responsibilities? (PO7)

- 1
 2
 3

8. How well did the program prepare you to communicate effectively with patients, healthcare professionals, and the public? (PO8)

- 1
 2
 3

9. How has the training in assessing societal, health, and legal issues influenced your approach to pharmacy practice? (PO9)

- 1
 2
 3

10. How has the program's focus on environmental and sustainability issues influenced your approach to pharmacy practice? (PO10)

- 1
 2
 3

11. How has your experience with life-long learning influenced your professional practice since graduating? (PO11)

- 1
 2
 3

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STAKEHOLDER / EMPLOYER FEED BACK FORM:



NANBHA COLLEGE OF PHARMACY
 KOORAPALAYAM PIRUVU, PITCHADAMPALAYAM POST
 ERODE-639052, TAMILNADU

PROGRAMME OUTCOME MATRIX FORMAT FOR B.PHARMACY

We shall be thankful to you and appreciate you, if you can spare some of your valuable time to fill up this PROGRAMME OUTCOME (PO) Matrix form. Your valuable inputs will be great use to finalize the matrix and enhance the credibility of our institution.

On which scale (High=3, Medium=2, Low=1) the given programme outcomes correlate with the B.Pharm programme of our institution. Kindly provide the score based on the scale mentioned.

Sl. No.	PO	Low	Medium	High
01	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences, behavioral, social, and administrative pharmacy sciences, and manufacturing practices.		✓	
02	Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.			✓
03	Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.	✓		
04	Modern tool usage: Learn, select, and apply appropriate methods and procedures, software, and modern pharmacy-related computing tools with an understanding of the limitations.		✓	
05	Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens as leadership roles when appropriate to facilitate improvement in health and well-being.		✓	
06	Professional Identity: Understand, analyze and communicate the value of their professional roles in society.		✓	
07	Pharmaceutical Ethics: Have personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that respects cultural and personal variability in values, communication and lifestyles. Use ethical frameworks, apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.		✓	
08	Communication: Communicate effectively with the pharmacy community			

and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.				✓
09 The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.		✓		
10 Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and disseminate the knowledge and need for sustainable development.		✓		
11 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.		✓		

Name of the Expert: K. Mounika
 Designation: ASST. Professor
 Affiliation: Shree Venkateshwara college of Paramedical sciences
 Contact No: 9500595582
 Email ID: mounika.mythw@gmail.com Signature: K. Mounika

3.3.2 Provide results of evaluation of each PO (30)

Institute Marks : 30.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP103T	3	3	3	3	0	0	0	0	0	0	3
BP104T	3	2	1	1	0	1.2	0	2	1	1	2
BP105T	1.8	1	1.4	1	2.4	2	1.4	2	1.6	1.8	1.4
BP106RBT	3	3	3	0	1.7	1.25	1	1	1.7	1	3
BP101T	3	3	0	1	0	2	0	3	2.4	1	3
BP102T	3	2	2.4	1.4	1.6	1.8	1	1.2	1	2	1.4
BP201T	3	2	2.6	1	0	3	0	3	2	1	2
BP202T	3	3	3	2	0	2	2	3	1	1	3
BP203T	3	2	2	2.4	1.2	1.6	2.2	1.8	1.6	2	3
BP204T	3	2	2.2	1.6	0	2	1	2.6	3	2.4	2.8
BP205T	3	3	2.4	3	2	1.8	1.4	3	1	1	2.2
BP206T	1.4	1	1.6	1	1	1.4	1.2	1.4	1.2	2	1
BP301T	2.6	1	0	1.4	0	1.8	1.8	0	0	1.8	1.6
BP302T	3	3	3	3	0	0	0	0	0	0	3
BP303T	3	2.3	1	2.6	0	2.2	2.3	2	2.7	1	3
BP304T	3	3	3	3	0	3	0	0	2	1	3
BP401T	3	0	0	2	0	2	2	2	0	1.3	2.4
BP402T	3	1.6	1.4	0	0	2	1	1.8	2	1.2	2
BP403T	3	3	3	3	0	3	0	0	1	1	3
BP404T	3	2.5	1.8	2.4	1.75	2.4	2	1.2	1.6	1.4	2
BP405T	3	2.6	2	1	1.8	2.4	1	2.2	1.6	1	3
BP501T	3	3	3	2.5	1	2	1	1	1.7	1	3
BP502T	3	2.4	3	3	0	2	2.6	2	2.4	2	3
BP503T	3	2	1	2	2	2	1	3	3	2	3
BP504T	3	3	3	2.8	1	2.2	2	1.8	2	1.4	3
BP505T	2	2.3	2.5	0	1.8	2.4	2.6	1.8	2.4	2	3
BP601T	3	3	3	2.5	1	2	1	1	1.7	1	1

BP602T	3	2	1	1	0	2	2	2	2	2	2
BP603T	3	2.6	2.4	2	1.5	2.6	2.3	2	1.5	2.2	3
BP604T	3	3	3	2	0	2	2	2	3	2	2
BP605T	3	1.8	1	2.4	0	2	2.2	2.4	2.4	1	3
BP606T	3	3	3	2	2.2	2	2.6	1.4	1.8	1.6	3
BP701T	3	2.6	2.4	2	1.5	2.6	2.3	2	1.5	2.2	3
BP702T	3	2.8	2.6	2.6	1.8	1.4	1.3	1.4	2	0	3
BP703T	3	2.4	2.8	1.6	2.6	2.4	2.6	3	2.8	2.6	3
BP704T	3	2.8	3	3	1	2	0	0	2	3	3
BP801T	3	3	0	1	0	2	0	3	2.4	1	3
BP802T	3	2	2.4	1.4	1.6	1.6	1	1.2	1	2	1.4
BP803T	0.6	1.2	1	1	1	0.4	0.4	1	1	0	1
BP806T	3	1.4	3	0	1.7	1.3	1	1	1.7	1	3
BP807T	1	1.8	2	1	1.3	1	1	1.8	1	1.5	2.5
BP809T	3	2	2.4	1.4	2	1.8	1	1.6	1	2	1.4
BP810T	3	3	3	2.6	0	0	0	0	0	1.3	2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Direct Attainment	2.8	2.36	2.32	1.96	1.60	1.96	1.61	1.93	1.81	1.56	2.47
InDirect Attainment	2.5	2.5	2.6	2.6	2.5	2.5	2.5	2.6	2.5	2.4	2.4
PO Attainment	2.74	2.39	2.38	2.09	1.78	2.07	1.79	2.06	1.95	1.73	2.46

4 STUDENTS' PERFORMANCE (180)

Total Marks 144.03

Total Marks 20.00

Table 4.1

Item	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
Sanctioned intake of the program(N)	100	100	100	100	100	100	100
Total number of students admitted in first year (N1)	83	100	93	100	91	98	97
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	4	6	6	8	5	6
Total number of students admitted in the programme(N1 + N2)	83	104	99	106	99	103	103

4.1 Enrolment Ratio (20)

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25	100	83	83.00
2023-24	100	100	100.00
2022-23	100	93	93.00

Average [(ER1 + ER2 + ER3) / 3] : 92.00

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (50)

Total Marks 32.20

Table 4.2

Year of entry	Number of students admitted in 1st year + admitted via lateral entry in 2nd year (N1 + N2)	Number of students who have successfully graduated without backlogs in any year of study (Without backlog means no compartment/failure in any semester/year of study)			
		I year	II year	III year	IV year
2024-25 (CAY)	83				
2023-24 (CAYm1)	104	71			
2022-23 (CAYm2)	99	66	65		
2021-22 (CAYm3)	106	76	76	62	
2020-21 (LYG)	99	76	72	66	64
2019-20 (LYGm1)	103	64	49	46	46
2018-19 (LYGm2)	103	56	48	48	48

Table 4.3

Year of entry	Number of students admitted in 1st year + admitted via lateral entry in 2nd year (N1 + N2)	Number of students who have successfully graduated in stipulated period of study [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2024-25 (CAY)	83				
2023-24 (CAYm1)	104	99			
2022-23 (CAYm2)	99	91	97		
2021-22 (CAYm3)	106	96	102	95	
2020-21 (LYG)	99	89	95	92	86
2019-20 (LYGm1)	103	96	100	95	87
2018-19 (LYGm2)	103	89	103	96	80

4.2.1 Success rate without backlogs in any year of study (30)

Institute Marks : 15.60

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry	99.00	103.00	103.00
Y Number of students who have graduated without backlogs in the stipulated period	64.00	46.00	48.00
Success Index [SI = Y / X]	0.65	0.45	0.47

Average SI [(SI1 + SI2 + SI3) / 3] : 0.52

Assessment = 30 * Average SI : 15.60

4.2.2 Success rate in stipulated period (20)

Institute Marks : 16.60

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry	99.00	103.00	103.00
Y Number of students who have graduated in the stipulated period	86.00	87.00	80.00
Success Index [SI = Y / X]	0.87	0.84	0.78

Average SI [(SI1 + SI2 + SI3) / 3] : 0.83

Assessment = 20 * Average SI : 16.60

Note : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Final Year (10)

Total Marks 6.82

Academic Performance	2020-21 (LYG)	2019-20 (LYGm1)	2018-19 (LYGm2)
Mean of CGPA or mean percentage of all successful students(X)	7.73	7.44	7.69
Total number of successful students(Y)	86.00	87.00	80.00
Total number of students appeared in the examination(Z)	92.00	95.00	96.00
API [X*(Y/Z)]:	7.23	6.81	6.41

Average API [(AP1 + AP2 + AP3)/3] : 6.82

Academic Performance = Average API = [(AP1 + AP2 + AP3)/3] : 6.82

4.4 Academic Performance in Third Year (10)

Total Marks 7.01

Institute Marks : 7.01

Academic Performance	CAYm3 (2021-22)	LYG (2020-21)	LYGm1 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	7.22	7.67	7.24
Total number of successful students (Y)	95.00	92.00	95.00
Total number of students appeared in the examination (Z)	102.00	95.00	100.00
API [X * (Y/Z)]	6.72	7.43	6.88

Average API [(AP1 + AP2 + AP3)/3] : 7.01

Academic Performance = Average API [(AP1 + AP2 + AP3)/3] : 7.01

4.5 Academic Performance in Second Year (10)

Total Marks 7.69

Institute Marks : 7.69

Academic Performance	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (LYG)
Mean of CGPA or mean percentage of all successful students(X)	7.68	7.77	7.78
Total number of successful students(Y)	97.00	102.00	95.00
Total number of students appeared in the examination(Z)	97.00	102.00	97.00
API [X*(Y/Z)]:	7.68	7.77	7.62

Average API [(AP1 + AP2 + AP3)/3] : 7.69

Academic Performance = Average API = [(AP1 + AP2 + AP3)/3] : 7.69

4.6 Academic Performance in First Year (20)

Total Marks 14.58

Institute Marks : 14.58

Academic Performance	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
Mean of CGPA or mean percentage of all successful students(X)	7.68	6.92	7.81
Total number of successful students(Y)	99.00	91.00	96.00
Total number of students appeared in the examination(Z)	100.00	93.00	100.00
API [$X*(Y/Z)$]:	7.60	6.77	7.50

Average API [(AP1 + AP2 + AP3)/3] : 7.29

Academic Performance = Average API = [(AP1 + AP2 + AP3)/3] : 7.29

4.7 Placement and Higher Studies (40)

Total Marks 35.73

Institute Marks : 35.73

Item	2020-21 (LYG)	2019-20 (LYGm1)	2018-19 (LYGm2)
Total No of Final Year Students(N)	92.00	95.00	96.00
Number of students placed in Industries/ Hospitals/ Government sector through on/off campus recruitment or opted for Entrepreneurship(x)	54.00	52.00	53.00
No. of students admitted to higher studies with valid scores in various qualifying exams(y)	32.00	35.00	27.00
Placement Index [$(X + Y)/N$] :	0.93	0.92	0.83

Average Placement [$(X + Y)/N$] : 0.89

Assessment [40 * Average Placement] : 35.73

4.8 Professional Activities (20)

Total Marks 20.00

4.8.1 Professional societies / chapters and organizing pharmacy events (5)

The institution encourages students and faculties to be the part of the professional society and chapters. Our students are parts of Indian pharmacy graduates association. Our faculties are parts of APTI and IPA. Indian pharmacy graduates association is affiliated to Indian Pharmaceutical Congress Association (IPCA), the federal body of the five associations namely IPGA, IPA, IHPA, APTI and ALDCOC. Our students are registered as a member in IPGA. The following events were conducted in collaboration with the above mentioned professional societies.

Table 1: Professional society activities

Academic Year	Program	Date	Number of participants
2022-2023	Work shop –Hands on training in experimental animals	18/01/2023	52
	Seminar-Alcohol prohibition enforcement awareness	27/04/2023	326
	Yoga day celebration	21/06/2023 to 23/06/2023	390
	First aid training programme	07/07/2023	126
2023-2024	Free eye camp	11/09/2023	212
	World aids day rally	01/12/2023	157
	Seminar-Career guidance in the pharmaceutical Industry	06/04/2024	240
	Blood donation camp	14/06/2024	58
2024-2025	World population day rally	11/07/2024	136
	World suicide prevention day celebration	10/9/2024	306
	Seminar-Novel drug delivery system	10/10/2024	220
	Work shop – HPLC handling and its application	14/11/2024	45



Sample copies of Registered Professional bodies certificates

4.8.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks : 5.00

Table 1: Technical Magazine- Nandha Pharma Alert

Academic year	Editorial board	Contents	Address
2022-2023.	Patron:Thiru.V. Shanmugan Editor in Chief: Dr.T.Sivakumar Faculty Editorial Board: :Dr.S.Sengottuvelu,	Green chemistry and sustainability metrics in the pharmaceutical manufacturing sector	Nandha college of pharmacy, Erode-52
	Dr. S. Tamilizharasi, Dr.T.Prabha,	DNA sequencing and genomics research	
	Student Editorial Board : Mr.K. Bharath, Ms.S.Maalavika, Ms S. Janani, Mr. K.S. Ilavarasan, Ms. S.Abinaya sri, Mr. M.Kaviarasan. Advisor :Dr.R.Duraisamy Editor: Dr. Hajasherief	Lecanemab : a new drug for early – stage alzheimer’s disease	
2023-2024	Patron :Thiru.V. Shanmugan Editor in Chief: Dr.T.Sivakumar Faculty Editorial Board: Dr.S.Sengottuvelu,	Neuro Technology	
	Dr.S.Tamilizharasi, Dr.T.Prabha, Student Editorial Board: Ms S. Janani, Mr. K.S. Ilavarasan, Ms. S.Abinayasri, Mr. M.Kaviarasan.	Recent advances in green technology and industrial revolution 4.0. for a suitable future	
	Ms. S.Haripriya, Mr.N.Praveen. Advisor :Dr.R.Duraisamy Editor: Dr. Hajasherief	Solar-power oxygen systems: a lifeline for Somalian children	
2024-2025	Patron :Thiru.V. Shanmugan Editor in Chief: Dr.T.Sivakumar Faculty Editorial Board: Dr.S.Sengottuvelu,	First drug for Friedeich’s Ataxia	
	Dr. S.Tamilizharasi, Dr.T.Prabha,	Case report on Whipple Disease	
	Student Editorial Board: Ms.S.Abinayasri, Mr. Kaviarasan Ms.S.Haripriya, Mr.N.Praveen Ms.P.Dharshini, Mr.V.C.Ariprasad Advisor :Dr.R.Duraisamy Editor: Dr. Hajasherief	Artificial intelligence in medical field	

Table 2: Students award in Conference and Workshop

S.No	Type of Activity	Title	Name and year	Venue
1	Poster presentation competition	International development on Professional development and Advanced training in AI driven drug design, development	Sarankumar (III- B.Pharm) Oct-2022-Winner	JSSCOP , Ooty
2	Poster presentation competition	International development on Professional development and Advanced training in AI driven drug design, development	Oviya (II-B.Pharm) Oct-2022- Runner	JSSCOP , Ooty
3	Poster presentation competition in international conference	Pharmanest 3	Chandru (IV-B.Pharm) Oct-2022-1 st prize	JSSCOP, Ooty.
4	Poster presentation in national conference	Recent trends in biochemistry- A Laboratory prespective	Prathiba (III -B.Pharm) Dec-2024- Second prize	Saveetha Meical and Hospital
5	Poster presentation in national conference	Deleterious effects of Phytohemagglutinin in nutrition foods	Kaviyaran.T (II-Prize) IV-B.Pharm- Nov-2024	Sengunthar college of Pharmacy- Trichencode

Nandha College of Pharmacy and Research Institute organized a **"Data Assessment in Pharmacovigilance"** on 13th September 2023 by Mr. Muthu Kumar, M.Pharm, Pharmacovigilance coordinator in KMCH. 98 students were participate in it.



Seminar on "Data Assessment in Pharmacovigilance"

A guest lecture Dr.Randy Pembrook, Chancellor of Southern Illinois university was given informative insights in **"Modern technology usage in manufacturing of pharmaceutical formulations"**. It was oraganised by our institution on 25th October 2023 and 99 students of our department were participated in it.



Seminar on "Modern technology usage in manufacturing of pharmaceutical formulations"

Nandha College of Pharmacy and Research Institute organized a Seminar on the topic "Improving perception of other health professionals" on 8th November 2023, by the Dr.Anna Mathai Kumar, Clinical Pharmacist from KMCH Hospital, Coimbatore.



Seminar on "Improving perception of other health professionals"

The institute conduted a Hands on training under the topic "Hands on experience in usage of glass wares" on 23rd November 2023 by the Dr. R.ilavarasan, Assitant Director, Captain Srinivasa Murthi Drug Research Institute for Ayurveda and Siddha Drug development.



Training on "Hands on experience in usage of glass wares"



Workshop "Role of Clinical pharmacist in clinical medicine intervention on stroke and epilepsy".

Nandha college of pharmacy conducted a seminar "Therapeutic drug monitoring, dosage regimen in disease state, Individualization of dosage regimen" on 31st January 2024 b y the Dr. Subrahanya Bhat, Director, Cronus Research labs, Bangalore.

Nandha college of Pharmacy organized a workshop "Role of Clinical pharmacist in clinical medicine intervention on stroke and epilepsy". It was held on 30th November 2023 under the Dr.Anita Ann Sunny ,PharmD, Neuroclinical Pharmacist, PSG Hospitals, Coimbatore.



Seminar on "Therapeutic drug monitoring, dosage regimen in disease state, Individualization of dosage regimen"



Seminar & workshop on "Impact of the Professional pharmacy solutions in societal and environment contexts and latest development in drug design"

Nandha College of Pharmacy organized a seminar and workshop on 14th February 2024 under the topic "Impact of the Professional pharmacy solutions in societal and environment contexts and latest development in drug design simulation model for drug design and characterization" by the Dr.Damodaran, Professor and HOD(Pharmaceutics) SRM College of Pharmacy, Kattankulathur, Chennai.

Nandha College of Pharmacy organized a seminar on "Future of Chrono pharmacology" on 19th June 2024 by Dr.V. Parthasarathi, Associate Professor, Department of pharmacy, Annamalai University, Chidambaram.

Nandha College of Pharmacy and Research Institute organized a guest lecture by Dr. Are Holen, clinical Psychiatrist in the topic "Discovering discoveries of apothecaries".



Guest Lecture: "Discovering discoveries of apothecaries".



Workshop on "Morden technology usage"

Nandha college of pharmacy organized "Optical Batch Size in process validation" program in 28th August 2024, by the Dr. Subrahanya Bhat, Director, Cronus Research labs, Bangalore.

On 18th September 2024, the workshop was organized under the topic "Workshop Morden technology usage" under the person of B. Greeshma, clinical Research Associate

Nandha College of Pharmacy, Erode organized Awareness program on 25th September 2024 in the topic "Awareness on role of health care professionals on public health" at College Auditorium.



"Awareness on role of health care professionals on public health"



Program on "Bionano Materials Advances in Nanomedicines"

The institution conducted a program "Bionano Materials Advances in Nanomedicines" under Dr.K. Rukmani on 6th November 2024. It was participated by 99 pharmacy students.

Patron: **Thiru. V..Shanmugan**
(Chairman, Sri Nandha Educational Trust)

Prepared by:

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ANNUAL REPORT FOR THE ACADEMIC YEAR 2023-2024

Nandha College of Pharmacy, a member of Nandha Educational Institutions was established in the year 1992 is offering B. Pharmacy course. The college also offers M. Pharmacy specialization in five branches namely Pharmaceutics, Pharmaceutical Chemistry, Pharmaceutical Analysis, Pharmaceutical Biotechnology and Pharmacology. Pharm. D course also started in Nandha College of Pharmacy, Erode. The courses are affiliated to The Tamil Nadu Dr. M.G.R. Medical University, Chennai and approved by the Pharmacy Council of India (PCI), New Delhi. The main thrust of the institution is to provide quality education, encouragement, inculcate discipline and professionalism among the students and develop a sense of harmony among human fraternity.



Seminar on "Effective documentation of research data in product development"

Nandha College of Pharmacy organized a seminar on "Effective documentation of research data in product development" by guest lecture Dr. M. Elizabeth, Asst. Professor from National Institute of Pharmaceutical Education & Research, Mohali, Punjab on 11th April 2023. The workshop was inaugurated by Thiru. V. Shanmugan, Chairman, Sri Nandha Educational Trust, Dr. T. Sivakumar, Principal, welcomed the gathering and Dr. S.P.Viswanathan, Advisor, Sri Nandha Educational Trust delivered a special address. Dr. S.Arumugam, CEO, Nandha Educational Institution presented the felicitations. The scientific session were successfully conducted by eminent resource person from various Industry and academic institution.

FDA APPROVED DRUGS

APPROVAL DATE	DRUG NAME	GENERIC NAME	INDICATION
APRIL	IV. Zevtera	Ceftriaxone sodium	Community-acquired bacterial pneumonia
APRIL	Inj. Lumisight	pegulicanine	Optical imaging agent for the detection of cancerous tissue
APRIL	IVES. Anktiva	Nogapendekin alfa inbakicept	Bladder cancer
APRIL	Tab. Ojemda	Tovorafenib	Refractory pediatric low-grade glioma
APRIL	Cap. Xolremdi	Mavorixafor	WHIM syndrome
MAY	Inj. Imdelltra	Tarlatamab	Extensive stage small cell lung cancer
JUNE	Inj. Rytelo	imetelstat	Low- to intermediate-1 risk myelodysplastic syndromes
JUNE	Tab. Iqirvo	elafibranor	Primary biliary cholangitis
JUNE	Inj. Yimmugo	human-dira	Primary immunodeficiency syndrome
JUNE	Syp. Vigafyde	vigabatrin	infantile spasms
JUNE	Vaccine. Capvaxive	pneumococcal 21 valent conjugate vaccine	Pneumococcal disease prophylaxis

- Rithish Niranjn, Pharm.D, Intern

OUR ACTIVITIES



Nandha College of Pharmacy, in collaboration with The Tamilnadu DR.M. G. R Medical University, Chennai, celebrated World Hypertension Day with a series of impactful activities and events. The highlight of the celebration was a free medical camp held at the seminar hall from 13th to 16th June 2024.



The Nandha College of Pharmacy organized an awareness programme on June 26, 2024, to mark the International Day Against Drug Abuse and Illicit Trafficking. The event focused on educating students and faculties about the dangers of drug abuse and the importance of combating illicit trafficking.



NANDHA PHARMA ALERT

An Exclusive Newsletter from Drug Information Center,
Department of Pharmacy Practice, NANDHA COLLEGE OF PHARMACY,
(B.Pharm - NBA Accredited) Koorapalayam, Erode- 52, Tamilnadu.
Phone: 73737 11224, E-MAIL: dicnandha@gmail.com



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Mr.N.Praveen
Ms.PDharshini,
Mr.V.C.Arjprasad
Advisor : Dr.R.Duraisamy
Editor : Dr. Hajasherief



IN THE HIGHLIGHTS:

- SOLAR-POWERED OXYGEN SYSTEMS : A LIFELINE FOR SOMALIAN CHILDREN
- GORHAM-STOUT DISEASE-
- CASE REPORT ON COMBINATION THERAPY IN A PATIENT WITH CHRONIC NEUROPATHIC GAUCHER DISEASE

SOLAR-POWERED OXYGEN SYSTEMS : A LIFELINE FOR SOMALIAN CHILDREN

Solar-powered oxygen systems have come to symbolize life for Somali children, in a country where pneumonia accounts for at least one-fifth (15,160) of deaths among children under five years. These systems are more cost-effective than other oxygen technologies and require minimal maintenance after installation due to their minimal moving parts. They are also easy to use, needing only limited training for healthcare staff in rural areas.

One healthcare provider shared, "The system is really easy to use for our healthcare providers and has drastically reduced the logistic and financial burden of always having to fuel our diesel generators." This climate-conscious approach, along with the positive impact on healthcare demand and supply, indicates a vast potential to strengthen primary healthcare in off-grid and infrastructurally challenged settings. By improving access to essential oxygen therapy, these systems are significantly contributing to reducing child mortality rates in regions where most children's deaths occur.



Components of Solar-Powered Oxygen Therapy

1. Solar Panels: Convert sunlight into electricity.
2. Battery Storage: Stores excess energy for use during non-sunny periods.
3. Oxygen Concentrator: Extracts oxygen from ambient air, providing high-concentration oxygen to patients.
4. Inverter: Converts direct current (DC) from the solar panels and batteries into alternating current (AC) required by many oxygen concentrators.

- ASWATHEE S, Pharm.D Intern

GORHAM-STOUT DISEASE

- Gorham-Stout Disease (GSD) is an uncommon pathology first detailed by Gorham and Stout in the 1950s. The condition is characterized by the spontaneous and progressive resorption of bone, often leading to significant skeletal deformities and functional impairment. Despite several hypotheses, the pathophysiology of GSD remains largely speculative, involving aberrant angiogenesis and lymphangiogenesis. The clinical manifestations of GSD are highly variable and depend on the bones involved: Pain: Localized and chronic, often exacerbated by movement or pressure, Swelling: Associated with soft tissue involvement and adjacent vascular anomalies, Pathological Fractures: Due to substantial loss of bone integrity, leading to increased fracture risk even with minor trauma.
- Diagnostic Criteria: The diagnosis of GSD is multidisciplinary, requiring a detailed clinical evaluation and various imaging techniques:
 - Radiography (X-rays): Initial modality revealing osteolytic lesions and bone thinning.
 - Computed Tomography (CT): Offers comprehensive visualization of the extent of bone involvement and structural compromise.
 - Magnetic Resonance Imaging (MRI): Provides detailed images of both bone and surrounding soft tissues, essential for assessing the extent of vascular or fibrous tissue replacement.
 - Bone Scintigraphy: May be employed to evaluate metabolic activity of bone lesions.
 - Histopathological Analysis: Biopsy of affected bone confirms the diagnosis, showing replacement of bone with angiomatous or lymphangiomatous tissue.
- Pathophysiology: The precise mechanisms driving GSD remain elusive. Proposed theories suggest a dysregulated balance between osteoclast-mediated bone resorption and osteoblast-mediated bone formation, possibly influenced by aberrant angiogenic factors such as vascular endothelial growth factor (VEGF) and platelet-derived growth factor (PDGF).
- Pharmacological Treatment:
 - Bisphosphonates: Such as pamidronate and zoledronic acid, to inhibit osteoclast activity and reduce bone resorption.
 - Interferon-alpha: Demonstrated to have anti-angiogenic properties, potentially beneficial in limiting vascular proliferation.
 - Radiation Therapy: Low-dose radiotherapy can induce sclerosis and halt osteolysis by targeting proliferating vascular and lymphatic tissues.
 - Surgical Intervention: Indicated in cases requiring mechanical stabilization, including internal fixation, bone grafting, and prosthetic replacement. Surgery may also be employed for symptomatic relief in cases of spinal involvement or impending fractures.

- KINGSLEY JOSHUA I, Pharm.D Intern

CASE REPORT ON COMBINATION THERAPY IN A PATIENT WITH CHRONIC NEURONOPATHIC GAUCHER DISEASE

A 7-year-old Italian boy presented with an enlarged abdomen at 16 months, leading to an oncological examination. Tests revealed anemia, thrombocytopenia, and splenomegaly. Bone marrow biopsy showed foam cells, suggesting a lysosomal storage disease. Biochemical tests indicated elevated acid phosphatase (47.8 IU/L) and chitotriosidase activity (508 nmol/mg protein), along with reduced beta-glucosidase activity (2 nmol/mg/protein). Genetic analysis confirmed Gaucher disease (GD) with homozygous L444P mutations in the GBA gene. The patient began enzyme replacement therapy (ERT) at 18 months and later combined ERT with substrate reduction therapy (SRT) using miglustat at 30 months. Miglustat dosing was adjusted over 4 weeks, along with dietary modifications to improve gastrointestinal tolerance. Over 5 years, the patient showed significant clinical improvements, including reduced splenomegaly, normalized hematological values, and decreased plasma chitotriosidase activity. Neurological evaluations remained normal, and the patient exhibited no cognitive impairments, performing well in school.

Discussion

Chronic neuronopathic Gaucher disease (NGD) involves neurological symptoms in patients with GD. The L444P/L444P genotype typically leads to chronic neurological issues. However, our patient showed no neurological symptoms up to age 7, contrasting with other patients who had neurological impairments within the first 5 years despite ERT monotherapy.

Combination therapy with ERT and miglustat has shown mixed results. Some studies noted improved neurological outcomes and pulmonary function, while others did not find significant differences. Early initiation of combination therapy may delay or prevent neurological symptoms, as seen in this case.

Conclusion

This case highlights the potential of combining oral miglustat with intravenous ERT to prevent neurological deterioration in chronic NGD. Dietary adjustments also play a crucial role in managing gastrointestinal side effects of miglustat. Further studies are needed to fully understand the long-term benefits of this combined treatment approach.

- CHANDRU S

INTERESTING MEDICAL FACTS

1. Senses: The human nose can detect over 1 trillion different scents, while the tongue senses five basic tastes: sweet, sour, salty, bitter, and umami.
2. Muscle Power: The masseter muscle, used for chewing, is the strongest in the human body, generating up to 500 pounds per square inch (psi) of force.
3. Brain Function: Despite being 2% of body mass, the brain consumes 20% of the body's energy to support its complex functions.
4. Memory: On average, people forget about 90% of newly learned information within days, as the brain prioritizes storing new over old memories.
5. Skin Regeneration: The human skin completely regenerates itself approximately every 27 days, shedding dead skin cells to make way for new ones.

- MUSTHAQ AHAMED S M

Nandha Pharma Alert- Magazine

4.8.3 Participation in inter-institute events by students of the program of study (10)

Institute Marks : 10.00

Table 1: Students participation in inter-institute events

Academic Year	Type of Activity	Title	No. of student participants	Venue
2022-2023	Workshop 5.2.2022	Virtual screening in Pharmacokinetic property	28	JSS college of pharmacy-Ooty
	Seminar 29.4.2022	Developments in Neutraceuticals	85	Erode college of Pharmacy- Erode
	Seminar 6.6.2022	Developments and advances in analytical techniques	94	Ramakrishna college of pharmacy- Coimbatore
	Seminar 3.8.2022	Recent advances in enhancements in pharmacology	137	Erode college of Pharmacy- Erode
	AICTE- Seminar 7.11.2022	Pharmacovigilance	79	Karpagam college of Pharmacy- Coimbatore
	Workshop and seminar 11.11.2022	Computer Aided Drug Design and training	55	Ramakrishna college of pharmacy- Coimbatore
	Seminar 13.3.2023	Recent trends in spectroscopic techniques	42	Vivekanandha college of pharmacy, Trichencode
	Seminar 24.3.2023	Carrier guidance	110	Erode college of pharmacy, Erode

2023-2024	Seminar 13.6.2023	Carrier guidance	89	JKKM college of pharmacy, Kumarapalayam
	Seminar 21.6.2023	Pharmacovigilance	74	JKKN college of pharmacy, Kumarapalayam
	Seminar 13.3.2024	Recent advances in chromatographic and spectroscopic techniques	84	Excel college of pharmacy- Kumarapalayam
	Seminar 24.3.2024	Carrier guidance	96	Excel college of pharmacy- Kumarapalayam
	Seminar 2.4.2024	Development in analytical methods	30	Ramakrishna college of pharmacy- Coimbatore
	Seminar 21.4.2024	Intellectual Property Rights	95	SNS college of Pharmacy- Coimbatore
	Seminar 13.6.2024	Carrier guidance in industry	49	PSG college of pharmacy- Coimbatore
	Seminar 21.6.2024	Pharmacovigilance discussion	25	Excel college of pharmacy- Kumarapalayam

2024-2025	AICTE- Seminar 28.7.2024	A new biological inventions of natural products has instigated the development of novel cancer therapeutic agents	92	JSS college of pharmacy-Ooty
	Seminar 20.08.2024	Investigating the pharmacological effect of novel compounds on cancer cell lines.	82	JKKMMRF'S annai sampoorani ammal college of Pharmacy, Kumarapalayam
	Seminar 17.9.2024	Computer Aided Drug Design	49	Ramakrishna college of pharmacy, Coimbatore
	Seminar 31.10.2024	Computer Aided Drug Design	118	Ramakrishna college of pharmacy, Coimbatore
	CEP 06.12.2024	Emerging trends and challenges in drug safety, discovery, and Development.	75	Sree Abirami college of Pharmacy, Coimbatore
	National Symosium 24 & 25.1.2025	Emerging infectious disease and novel drug development	52	Swamy Vivekanandha college of Pharmacy, Thirucencode.
	Workshop 29-31.01.2025	Basic plant tissue culture techniques	15	Rathinam college of Pharmacy, Coimbatore

Table 2: Students Achievement in extracurricular events

SI NO	Awards/ Price	Date	Name of Student	Sem/ Year	Activity	Organizer
1.	Winner	9 – 10 th December 2022	Tharani P	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam.
2.	Winner	9 – 10 th December 2022	Varshini Priya N	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam

3.	Winner	9 – 10 th December 2022	Sowmiya S	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
4.	Winner	9 – 10 th December 2022	Niranjana R	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
5.	Winner	9 – 10 th December 2022	Shalini S	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
6.	Winner	9 – 10 th December 2022	Isuvarya K	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
7.	Winner	9 – 10 th December 2022	Malavika S	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
8.	Winner	9 – 10 th December 2022	Mithuna S	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
9.	Winner	9 – 10 th December 2022	Vinitha D	B. Pharm 7 th Sem	Throw Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam
10.	Participated	9 – 10 th December 2022	Arun V	B. Pharm 7 th Sem	Volley Ball	JKKM Institute of Health Sciences College of Pharmacy, TN Palayam

Table 3: Student participation in extracurricular events (2023-2024)

SI NO	Date	Team Name and No.of Participants	Sem/Year	Activity	Organizer
1.	26 – 29 th June 2023	Stalin& CO -11	B. Pharm 5 th Sem	Kabaddi	United college of Pharmacy, Periyanaickenpalayam.
2.	26 – 29 th June 2023	Gokul& CO – 15	B. Pharm 7 th Sem	Cricket	United college of Pharmacy, Periyanaickenpalayam.
3.	26 – 29 th June 2023	Shruthi& CO – 12	B. Pharm 7 th Sem	Throw Ball	United college of Pharmacy, Periyanaickenpalayam.
4.	26 – 29 th June 2023	Vivitha&Dharani	B. Pharm 7 th Sem	Tennikoit	United college of Pharmacy, Periyanaickenpalayam.
5.	26 – 29 th June 2023	Dharaneeswaran& CO – 09	B. Pharm 7 th Sem	Football	United college of Pharmacy, Periyanaickenpalayam.
6.	26 – 29 th June 2023	Jokee& CO – 09	B. Pharm 7 th Sem	Volley ball	United college of Pharmacy, Periyanaickenpalayam.
7.	13 – 15 th February 2023	Stalin& CO – 10	B. Pharm 5 th Sem	Kabaddi	Excel college of Pharmacy, Komarapalayam.
8.	13 – 15 th February 2023	Sathasivam& CO – 15	B. Pharm 5 th Sem	Cricket	Excel college of Pharmacy, Komarapalayam.
9.	13 – 15 th February 2023	Jokee& CO – 09	B. Pharm 7 th Sem	Volley ball	Excel college of Pharmacy, Komarapalayam.
10.	13 – 15 th February 2023	Pavinesh	B. Pharm 6 th Sem	Relay	Excel college of Pharmacy, Komarapalayam.
11.	13 – 15 th February 2023	Noor Mohamed S	B. Pharm 6 th Sem	Relay	Excel college of Pharmacy, Komarapalayam.

12.	13 – 15 th February 2023	Pradeep Gokul B	B. Pharm 6 th Sem	Relay	Excel college of Pharmacy, Komarapalayam.
13.	13 – 15 th February 2023	Sabari Aravinthan	B. Pharm 6 th Sem	Relay	Excel college of Pharmacy, Komarapalayam.
14.	13 – 15 th February 2023	Vivitha	B. Pharm 6 th Sem	Athletics 200 meters	Excel college of Pharmacy, Komarapalayam.
15.	13 – 15 th February 2023	Katheerja A	B. Pharm 6 th Sem	Athletics 200 meters	Excel college of Pharmacy, Komarapalayam.
16.	13 – 15 th February 2023	Thenmozhi	B. Pharm 3 rd Sem	Athletics 200 meters	Excel college of Pharmacy, Komarapalayam.
17.	13 – 15 th February 2023	Sheena	B. Pharm 3 rd Sem	Athletics 200 meters	Excel college of Pharmacy, Komarapalayam.
18.	13 – 15 th February 2023	Vivitha	B. Pharm 6 th Sem	Athletics 100 meters	Excel college of Pharmacy, Komarapalayam.
19.	13 – 15 th February 2023	Katheerja A	B. Pharm 6 th Sem	Athletics 100 meters	Excel college of Pharmacy, Komarapalayam.
20.	13 – 15 th February 2023	Thenmozhi	B. Pharm 3 rd Sem	Athletics 100 meters	Excel college of Pharmacy, Komarapalayam.
21.	13 – 15 th February 2023	Sheena	B. Pharm 3 rd Sem	Athletics 100 meters	Excel college of Pharmacy, Komarapalayam.

22.	13 – 15 th February 2023	Vivitha	B. Pharm 6 th Sem	Kho kho	Excel college of Pharmacy, Komarapalayam.
23.	13 – 15 th February 2023	Karan Kumar& C0 – 08	B. Pharm 3 rd Sem	Basket Ball	Excel college of Pharmacy, Komarapalayam.

Table 4: Student participation in extracurricular events (2024-2025)

S.No	Date	Sem/year	Sports name	No.of students participated	Organizer
1.	26 th June 2024	B. Pharm	Kabaddi	10	SNS Institutions, Coimbatore.
2.	26 th June 2024	B. Pharm	Volley ball	09	SNS Institutions, Coimbatore.
3.	26 th June 2024	B. Pharm	Foot ball	12	SNS Institutions, Coimbatore.
4.	26 th June 2024	B. Pharm	Batmiton	04	SNS Institutions, Coimbatore.
5.	22 nd March 2024	B. Pharm	Kho-kho	14	Excel college of Pharmacy, Kumarapalayam
6.	22 nd March 2024	B. Pharm	Throw ball	12	Excel college of Pharmacy, Kumarapalayam
7.	22 nd March 2024	B. Pharm	Kho-kho	14	Excel college of Pharmacy, Kumarapalayam
8.	22 nd March 2024	Thenmozhi K (B.Pharm 4 th sem)	Athletics 100 meters	01	Excel college of Pharmacy, Komarapalayam.

9.	22 nd March 2024	Daniska B (B. Pharm 1 st Sem)	Athletics 100 meters	01	Excel college of Pharmacy, Komarapalayam.
10.	22 nd March 2024	SreeSubbiksha K&Divya (B.Pharm 4 th sem)	Athletics 200 meters	02	Excel college of Pharmacy, Komarapalayam.
11.	22 nd March 2024	JeevithaPDivya T (B. Pharm 6 th Sem)	Badminton	02	Excel college of Pharmacy, Komarapalayam.
12.	22 nd March 2024	B. Pharm 6 th Sem	Cricket1	15	Excel college of Pharmacy, Komarapalayam.
13.	22 nd March 2024	B. Pharm 4 th Sem	Kabaddi	11	Excel college of Pharmacy, Komarapalayam.
14.	22 nd March 2024	Sadhasivam P (B. Pharm 6 th Sem)	Athletics 1500 Meter	01	Excel college of Pharmacy, Komarapalayam.
15.	22 nd March 2024	Kaviarasan T (B. Pharm 6 th Sem)	Athletics 1500 Meter	01	Excel college of Pharmacy, Komarapalayam.
16.	22 nd March 2024	Deena Priyan E(B.Pharm 4 th sem)	Shot Put	01	Excel college of Pharmacy, Komarapalayam.
17.	22 nd March 2024	Dhanakodi A(B. Pharm 6 th Sem)	Badminton	01	Excel college of Pharmacy, Komarapalayam.
18.	22 nd March 2024	Sedhupathy S (B. Pharm 6 th Sem)	Badminton	01	Excel college of Pharmacy, Komarapalayam.
19.	22 nd March 2024	B. Pharm 6 th Sem	Volley ball	11	Excel college of Pharmacy, Komarapalayam.
20.	22 nd March 2024	B. Pharm 6 th Sem	Basket ball	10	Excel college of Pharmacy, Komarapalayam.

21.	22 nd March 2024	B. Pharm 6 th Sem	Throw ball	10	Excel college of Pharmacy, Komarapalayam.
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Table 5: Students participation in Cultural events (2023-2024)

S. No	Date	Name of the Student & no.of. Participants	Semester	Event	Activity	Organizer
1.	4 th March 2023	Bhagavath Singh & Co - 06	B.Pharm, 4 th Sem.	Intercollegiate competition	Mime	Excel Engineering College, Komarapalayam
2.	4 th March 2023	Karankumar& Co - 03	B.Pharm, 3 th Sem.	Intercollegiate competition	Group song	Excel Engineering College, Komarapalayam
3.	4 th March 2023	Janani	B.Pharm, 3 th Sem.	Intercollegiate competition	Mehandhi	Excel Engineering College, Komarapalayam
4.	4 th March 2023	Manasa	B.Pharm, 4 th Sem.	Intercollegiate competition	Mehandhi	Excel Engineering College, Komarapalayam
5.	4 th March 2023	Jagatheeswari.T	B.Pharm, 6 th Sem.	Intercollegiate competition	Mehandhi	Excel Engineering College, Komarapalayam
6.	4 th March 2023	Saran Kumar.S& Co - 04	B.Pharm, 6 th Sem.	Intercollegiate competition	Group dance	Excel Engineering College, Komarapalayam
7.	4 th March 2023	Kavin.C	B.Pharm, 6 th Sem.	Intercollegiate competition	Solo song	Excel Engineering College, Komarapalayam
8.	4 th March 2023	Vignesh	B.Pharm, 3 th Sem.	Intercollegiate competition	Solo song	Excel Engineering College, Komarapalayam

Table 6: Students participation in Cultural events (2024-2025)

Sl No	Date	Name of the Student	Semester	Event	Activity	Organizer
1.	1 th March 2024	R.Rangarajan	D.Pharm, 1 st Sem.	Culturals event	Solo song	Excel College of Pharmacy, Komarapalayam
2.	1 th March 2024	K.T.Ilancheran	B.Pharm, 4 th Sem.	Culturals event	Group dance	Excel College of Pharmacy, Komarapalayam
3.	1 th March 2024	P.Praveen	B.Pharm, 4 th Sem.	Culturals event	Face painting	Excel College of Pharmacy, Komarapalayam
4.	1 st March 2024	Deepika R	B.Pharm, 6 th Sem.	Intercollegiate competition	Face painting	VET Institute of Arts and science (Co-education) College,Thindal
5.	1 st March 2024	Nisha	B.Pharm, 6 th Sem.	Intercollegiate competition	Face painting	VET Institute of Arts and science (Co-education) College,Thindal
6.	1 st March 2024	Kalpana	B.Pharm, 4 th Sem.	Intercollegiate competition	Face painting	VET Institute of Arts and science (Co-education) College,Thindal
7.	1 st March 2024	Sandhiya	B.Pharm, 6 th Sem.	Intercollegiate competition	Face painting	VET Institute of Arts and science (Co-education) College,Thindal
8.	1 st March 2024	Sathya	B.Pharm, 4 th Sem.	Intercollegiate competition	Cook without fire	VET Institute of Arts and science (Co-education) College,Thindal
9.	1 st March 2024	Sheena	B.Pharm, 5 th Sem.	Intercollegiate competition	Cook without fire	VET Institute of Arts and science (Co-education) College,Thindal

10.	1 st March 2024	Nithyasri	B.Pharm, 5 th Sem.	Intercollegiate competition	Cook without fire	VET Institute of Arts and science (Co-education) College,Thindal
11.	1 st March 2024	Harsha	B.Pharm, 6 th Sem.	Intercollegiate competition	Art from waste	VET Institute of Arts and science (Co-education) College,Thindal
12.	1 st March 2024	Vidhya.V	B.Pharm, 4 th Sem.	Intercollegiate competition	Art from waste	VET Institute of Arts and science (Co-education) College,Thindal
13.	1 st March 2024	Kirthika	B.Pharm, 6 th Sem.	Intercollegiate competition	Mehandhi	VET Institute of Arts and science (Co-education) College,Thindal
14.	1 st March 2024	Sivaranjini.C	B.Pharm, 4 th Sem.	Intercollegiate competition	Mehandhi	VET Institute of Arts and science (Co-education) College,Thindal
15.	1 st March 2024	Mariya	B.Pharm, 5 th Sem.	Intercollegiate competition	Mehandhi	VET Institute of Arts and science (Co-education) College,Thindal
16.	1 st March 2024	Keethika S	B.Pharm, 6 th Sem.	Intercollegiate competition	Group dance	VET Institute of Arts and science (Co-education) College,Thindal
17.	1 st March 2024	Savitha	B.Pharm, 4 th Sem.	Intercollegiate competition	Solo dance	VET Institute of Arts and science (Co-education) College,Thindal
18.	1 st March 2024	Deepasri	B.Pharm, 5 th Sem.	Intercollegiate competition	Solo dance	VET Institute of Arts and science (Co-education) College,Thindal

5 FACULTY INFORMATION AND CONTRIBUTIONS (175)
Total Marks 160.72

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
Sivakumar T	AOIPK3288C	M.Pharm and Ph.D	26/05/2004	PHARMACEUTICAL CHEMISTRY	25	4		Professor	06/07/2006	06/07/2006	Regular	Yes		Yes
Amsa P	AGJPA4083A	M.Pharm and Ph.D	11/03/2019	PHARMACEUTICS	4			Professor	05/07/2019	01/10/2004	Regular	Yes		No
Tamizharasi S	AFJPT6006K	M.Pharm and Ph.D	19/03/2004	PHARMACEUTICS	4	2		Professor	25/08/2005	25/08/2005	Regular	Yes		No
Apollo James	BDSPA1991C	M.Pharm and Ph.D	04/07/2023	PHARMACY PRACTICE	2		1	Professor	09/01/2024	28/10/2013	Regular	Yes		No
Prabha T	AEIPT6914N	M.Pharm and Ph.D	31/03/2004	PHARMACEUTICAL ANALYSIS	34	4		Professor	13/11/2009	13/11/2009	Regular	Yes		No
Jagadeeswaran.M	AFTPJ3549P	M.Pharm and Ph.D	06/07/2013	PHARMACEUTICAL ANALYSIS	4			Professor	27/10/2014	11/10/2004	Regular	Yes		No
Sasikala S	IYUPS8483R	M.Pharm	31/10/2017	PHARMACEUTICAL ANALYSIS				Associate Professor	27/07/2022	02/07/2018	Regular	Yes		No
Vinoth K	ANLPV6833E	M.Pharm	30/04/2013	PHARMACEUTICS				Associate Professor	10/12/2014	10/12/2014	Regular	Yes		No
Duraisami R	ADKPC8421C	M.Pharm and Ph.D	30/07/2010	PHARMACOGNOSY	3			Professor	02/08/2010	01/04/1998	Regular	Yes		No
Arun K	AZGPA4148Q	M.Pharm	31/03/2010	PHARMACEUTICAL CHEMISTRY				Associate Professor	09/06/2015	09/06/2015	Regular	Yes		No
Gladys Kalpana K	AMPPG1866P	M.Pharm	30/04/2015	PHARMACOLOGY				Associate Professor	01/08/2019	30/09/2016	Regular	Yes		No
Chellappan N	AKYPC9800C	M.Pharm	30/11/2012	PHARMACEUTICS				Associate Professor	01/03/2016	01/03/2016	Regular	Yes		No
Haja Sherief S	AEUPH3800F	M.Pharm and Ph.D	30/10/2015	PHARMACOLOGY	4			Professor	02/11/2015	31/10/2007	Regular	Yes		No
Aravind.M	BOLPA3554B	M.Pharm	30/10/2021	PHARMACEUTICS				Assistant Professor		07/08/2024	Regular	Yes		No
Kamalakkannan K	AMUPK0184F	M.Pharm and Ph.D	30/04/2016	PHARMACEUTICAL BIOTECHNOLOGY	8			Professor	04/07/2016	18/03/2003	Regular	Yes		No
Senthil M	CESPS3626G	M.Pharm	31/05/2008	PHARMACEUTICAL CHEMISTRY				Associate Professor	18/04/2022	18/04/2022	Regular	Yes		No

Kiruthika G	CXBPK5250N	M.Pharm	30/11/2019	PHARMACEUTICAL CHEMISTRY	1			Assistant Professor		07/12/2019	Regular	Yes		No
Mohanraj K P	BYXPM9946H	M.Pharm and Ph.D	13/06/2012	PHARMACEUTICS	2			Professor	01/06/2017	18/01/2012	Regular	Yes		No
Ramamoorthi M	AMTPR9855M	M.Pharm	31/10/2013	PHARMACOLOGY				Associate Professor	18/11/2017	18/11/2013	Regular	Yes		No
Sumathi R	CTPPS7860C	M.Pharm and Ph.D	30/01/2021	PHARMACEUTICAL BIOTECHNOLOGY	2			Professor	09/03/2021	09/04/2007	Regular	Yes		No
Kumutha T	BRYPK6726K	M.Pharm and Ph.D	03/09/2024	PHARMACY PRACTICE	6		1	Professor	03/10/2024	03/06/2019	Regular	Yes		No
Sumathi A	DHZPS2269J	M.Pharm and Ph.D	31/05/2017	PHARMACEUTICS	6			Professor	18/01/2022	18/01/2022	Regular	Yes		No
Lalitha V	AFUPL3164R	M.Pharm and Ph.D	30/01/2021	PHARMACOLOGY	18			Professor	09/03/2021	01/04/2010	Regular	Yes		No
Sengottuvelu S	ALYPS2744J	M.Pharm and Ph.D	30/09/2010	PHARMACOLOGY	27	4		Professor	27/01/2011	18/04/2000	Regular	Yes		No
Thangamani M	BAMPT4555J	M.Pharm	31/05/2018	PHARMACOGNOSY				Assistant Professor		13/12/2021	Regular	Yes		No
Punitha S	CQKPP0073N	M.Pharm	31/10/2013	PHARMACEUTICS	1			Associate Professor	10/07/2017	09/07/2014	Regular	Yes		No
Saravanan R	AYHPS3387B	M.Pharm	31/05/2008	PHARMACOLOGY				Associate Professor	19/10/2012	18/10/2008	Regular	Yes		No
Srinivasan K	BQWPS7894D	M.Pharm and Ph.D	31/12/2014	PHARMACEUTICAL CHEMISTRY	2			Professor	25/11/2017	23/11/2006	Regular	Yes		No
SameemaBegum S	FOGPS5322C	M.Pharm	31/05/2012	PHARMACOGNOSY	6			Associate Professor	02/12/2017	30/11/2012	Regular	Yes		No
Thirumaran J	AGDPT8370K	M.Pharm	30/06/2009	PHARMACEUTICS	1			Associate Professor	01/02/2018	01/02/2018	Regular	Yes		No
Junaid Rahman P V	DAHPP3672K	M.Pharm	31/10/2015	PHARMACOLOGY				Associate Professor	09/07/2020	04/01/2016	Regular	Yes		No
Moushmi.T.	CUGPM7505J	Pharm D	30/11/2019	PHARMACY PRACTICE				Assistant Professor		09/08/2024	Regular	Yes		No
Vanaja P	BBOPV4437L	M.Pharm	30/09/2017	PHARMACEUTICAL CHEMISTRY				Associate Professor	01/06/2022	31/01/2018	Regular	Yes		No
Menaka K	CSYPM5490E	M.Pharm and Ph.D	30/07/2024	PHARMACY PRACTICE	6		1	Professor	05/08/2024	01/08/2014	Regular	Yes		No
Vasudevan M	AFGPV1826A	M.Pharm and Ph.D	16/02/2011	PHARMACOLOGY	12			Professor	04/03/2011	19/10/2009	Regular	No	30/08/2024	No

AbrahamJebaraj S	ALFPA0847H	M.Pharm	31/05/2008	PHARMACEUTICAL CHEMISTRY				Associate Professor	09/07/2014	18/01/2010	Regular	No	10/04/2024	No
Sribhuvanewari S	BOKPS3194A	M.Pharm	31/03/2007	PHARMACEUTICAL BIOTECHNOLOGY	4			Associate Professor	04/04/2011	09/04/2007	Regular	Yes		No
Manickavalli E	GCEPM5995N	M.Pharm	30/11/2019	PHARMACEUTICAL CHEMISTRY	2			Assistant Professor		07/12/2019	Regular	Yes		No
Parthiban.T.	BTRPP7413B	M.Pharm	30/11/2019	PHARMACEUTICS				Assistant Professor		09/08/2023	Regular	Yes		No
Mejo C Korah	PRSTM9621Q	M.Pharm	31/10/2015	PHARMACOLOGY	3			Associate Professor	09/07/2020	04/01/2016	Regular	No	31/08/2024	No
Sivaranjani J	GOPPS5265P	M.Pharm	30/10/2021	PHARMACEUTICS				Assistant Professor		09/05/2022	Regular	Yes		No
Haritha P	AMXTH4733L	M.Pharm	30/10/2021	PHARMACEUTICAL CHEMISTRY	1			Assistant Professor		07/06/2022	Regular	Yes		No
Arulraj R	BPCPA7000L	M.Pharm	30/10/2021	PHARMACEUTICAL CHEMISTRY				Assistant Professor		18/05/2022	Regular	Yes		No
Gowrisankar C	CSOPC2340B	M.Pharm	30/04/2024	PHARMACEUTICS				Assistant Professor		10/06/2024	Regular	Yes		No
Poornima M	DHNPP4157E	M.Pharm	30/11/2019	PHARMACY PRACTICE				Assistant Professor		10/06/2024	Regular	Yes		No
Hesly Rajan	AVVPR6302G	M.Pharm	31/10/2016	PHARMACY PRACTICE				Associate Professor	01/07/2022	08/07/2017	Regular	No	02/08/2024	No
Hemalatha S	AKAPH6321H	M.Pharm and Ph.D	03/07/2024	PHARMACY PRACTICE	7		1	Associate Professor		06/08/2014	Regular	No	30/09/2024	No
Satheesh Babu N	CTTPS3386P	M.Pharm and Ph.D	03/04/2014	PHARMACEUTICS				Professor		14/03/2022	Regular	No	01/08/2024	No
Priscilla Mary J	CVIPP4490A	Pharm D	30/11/2019	PHARMACY PRACTICE				Assistant Professor		03/02/2020	Regular	No	07/08/2024	No
Selvin Thanuja C	FGZPS1065P	M.Pharm	31/05/2012	PHARMACEUTICAL CHEMISTRY	2			Associate Professor	28/06/2018	26/06/2013	Regular	No	19/08/2024	No
Suryaprasanth.V	OPHPS9789Q	M.Pharm	30/04/2024	PHARMACEUTICS				Assistant Professor		10/06/2024	Regular	Yes		No
Nandhakumaran J	DMEPN4757C	M.Pharm	30/04/2024	PHARMACOLOGY				Assistant Professor		27/06/2024	Regular	Yes		No
Sathishkumar.R.	KTMPS7630K	M.Pharm	30/04/2024	PHARMACEUTICAL ANALYSIS				Assistant Professor		09/07/2024	Regular	Yes		No
Rajakkani T	BXKPR0143P	M.Pharm	31/05/2019	PHARMACOGNOSY				Assistant Professor		03/12/2021	Regular	No	03/06/2024	No

Prasanna R	AQZPR0536R	M.Pharm	31/05/2008	PHARMACEUTICAL CHEMISTRY				Associate Professor		03/04/2013	Regular	No	31/07/2024	No
Saravanakumar J	CPHPS5241B	M.Pharm	30/04/2014	PHARMACOLOGY				Associate Professor	15/11/2019	18/11/2015	Regular	No	31/07/2024	No
Kumar R	BNKPK6679M	M.Pharm	31/12/2012	PHARMACOLOGY				Assistant Professor		18/11/2015	Regular	No	30/06/2023	No
Prasath S	BURPS1939Q	M.Pharm	31/10/2011	PHARMACOGNOSY				Associate Professor		20/12/2021	Regular	No	12/04/2023	No
Vishnu.G.	BFGPV4627A	M.Pharm	30/04/2024	PHARMACEUTICAL ANALYSIS				Assistant Professor		18/07/2024	Regular	Yes		No
Syamprakash K R	JASPK8142Q	Pharm D	31/12/2020	PHARMACY PRACTICE				Assistant Professor		18/07/2024	Regular	Yes		No
Poulston Femin P	CUIPP2454D	Pharm D	31/12/2020	PHARMACY PRACTICE				Assistant Professor		18/07/2024	Regular	Yes		No
Sudha. J	DYVPS5662A	M.Sc	30/04/2007	MATHEMATICS				Assistant Professor		01/08/2024	Regular	Yes		No
Narendran. V	AQIPN4195P	M.Sc	30/06/2012	COMPUTER SCIENCE				Assistant Professor		03/07/2023	Regular	Yes		No
Anitha.L	AUAPA2252L	M.Sc	29/04/2000	MATHEMATICS				Assistant Professor		18/06/2012	Regular	No	15/07/2024	No
Arun Kumar.R.K.	BOJPA1518R	M.Sc	30/06/2015	COMPUTER SCIENCE				Assistant Professor		15/06/2016	Regular	No	30/06/2023	No
Priya A	ICNPP5925C	Pharm D	30/09/2024	PHARMACY PRACTICE				Assistant Professor		09/10/2024	Regular	Yes		No
Sakthisundaram S	MFPPS8835D	M.Pharm	30/10/2021	PHARMACOLOGY				Assistant Professor		03/05/2022	Regular	No	25/08/2023	No

5.1 Student-Faculty Ratio (SFR) (20)

Total Marks 20.00

UG

No. of UG Programs in the Department

B PHARMACY						
Year of Study	CAY		CAYm1		CAYm2	
	(2024-25)		(2023-24)		(2022-23)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
1st Year	100	0	100	0	100	0
2nd Year	100	4	100	6	100	6
3rd Year	100	6	100	6	100	8
4th Year	100	6	100	8	100	5
Sub-Total	400	16	400	20	400	19
Total	416		420		419	
Grand Total	<input type="text" value="416"/>		<input type="text" value="420"/>		<input type="text" value="419"/>	

PG

No. of PG Programs in the Department

M.PHARMACY PHARMACEUTICS			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	15	15	15
2nd Year	15	15	15
Total	30	30	30
M.PHARMACY PHARACEUTICAL CHEMISTRY			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	12	12	12
2nd Year	12	12	12
Total	24	24	24
M.PHARMACY PHARMACEUTICAL ANALYSIS			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	12	12	12
2nd Year	12	12	12
Total	24	24	24
M.PHARMACY PHARMACEUTICAL BIOTECHNOLOGY			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	9	9	9
2nd Year	9	9	9
Total	18	18	18
M.PHARMACY PHARMACOLOGY			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	15	15	15
2nd Year	15	15	15
Total	30	30	30

PHARM.D.			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	30	30	30
2nd Year	30	30	30
Total	60	60	60
Grand Total	186	186	186

SFR

No. of UG Programs in the Department

No. of PG Programs in the Department

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
Total No. of Students in the Department(S)	<input type="text" value="722"/> Sum total of all (UG+PG) students	<input type="text" value="726"/> Sum total of all (UG+PG) students	<input type="text" value="725"/> Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	<input type="text" value="50"/> F1	<input type="text" value="50"/> F2	<input type="text" value="52"/> F3
Student Faculty Ratio(SFR)	<input type="text" value="14.44"/> SFR1=S1/F1	<input type="text" value="13.94"/> SFR2=S2/F2	<input type="text" value="14.52"/> SFR3=S3/F3
Average SFR	<input type="text" value="14.30"/> SFR=(SFR1+SFR2+SFR3)/3		
F=Total Number of Faculty Members in the Department (excluding first year faculty)			

Note: 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjust Faculty/Resource persons from industry as per AICTE norms and standards. The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre.

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2024-25)	50	0
CAYm1(2023-24)	50	0
CAYm2(2022-23)	52	0

Average SFR for three assessment years : 14.30

Assessment SFR : 20

5.2 Faculty Cadre Proportion (20)

Total Marks 20.00

Institute Marks : 20.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	5.00	16.00	10.00	0.00	32.00	34.00
CAYm1(2023-24)	5.00	16.00	10.00	1.00	32.00	33.00
CAYm2(2022-23)	5.00	16.00	10.00	0.00	32.00	36.00
Average Numbers	5.00	16.00	10.00	0.33	32.00	34.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 10 : 20.00

5.3 Faculty Qualification (20)

Total Marks 14.72

Institute Marks : 14.72

	X	Y	F	FQ = 2.0 x [(10X + 6Y) / F]
2024-25(CAY)	16	33	48.00	14.92
2023-24(CAYm1)	17	30	48.00	14.58
2022-23(CAYm2)	16	32	48.00	14.67

Average Assessment : 14.72

5.4 Faculty Retention (20)

Total Marks 20.00

Institute Marks : 20.00

Description	2023-24	2024-25
No of Faculty Retained	48	37
Total No of Faculty	36	36
% of Faculty Retained	133	103

Average : 118.00

Assessment Marks : 20.00

5.5 Innovations by the Faculty in Teaching and Learning (15)

Total Marks 15.00

1. **The work must be made available on Institute website – Yes. Available at Institute website.** The youtube videos, online lectures, etc. are available at our institution website.

Link: <https://nandhapharmacy.org/>

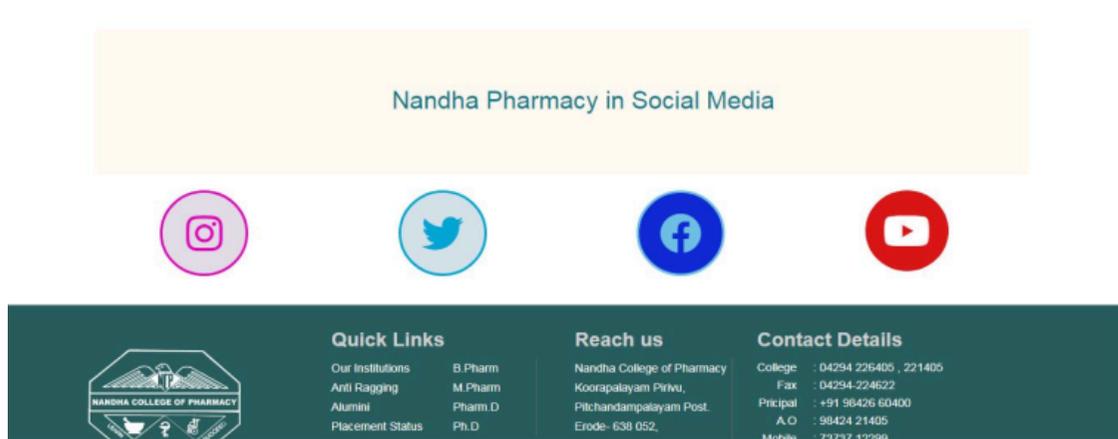


Figure 1: Screenshot shows the various social media displayed in Institutions website

2. **The work must be available for peer review and critique – Yes. Available for peer review and critique.** All the students and viewers of beneficiaries can give the comments and suggestions at the comment sections of the youtube, online lecture, etc.

Youtube Video

The innovation by the faculty in teaching and learning activities that contribute to the improvement of the student learning are listed below.

1. Online Video and the Institute Channel

The department run its own youtube channel named “nandhacollegeofpharmacy”. The objective of youtube channel is repetitive observing and learning the concept. The youtube channel link is available in the college website.

Youtube link :

<https://www.youtube.com/@NandhaCollegeOfPharmacy-is4xm> (<https://www.youtube.com/@NandhaCollegeOfPharmacy-is4xm>)

2. The content is available for peer review and criticize

Lecture Link:

<https://youtu.be/et1QMxD468> (<https://youtu.be/et1QMxD468>)

The students are encouraged to link their comment and query. Faculty promptly respond to the query and their comment.

3. The video is available for reproduction and building of other scholar in our sister institutions and other pharmacy institutions.

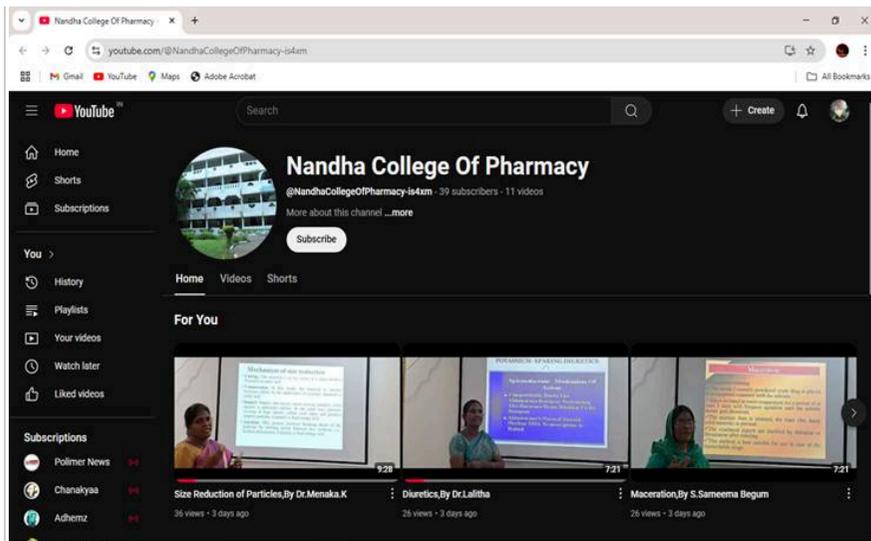


Figure 2: Youtube Channel : Nadha College of Pharmcy, Erode

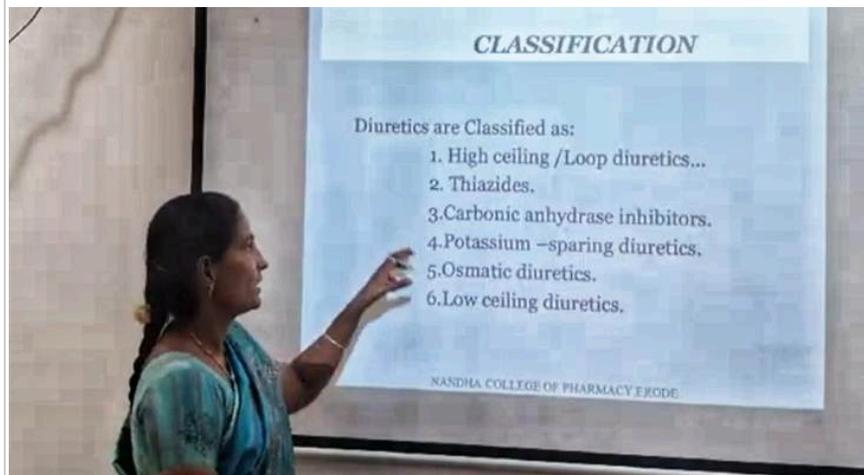


Figure 3: Lecture Video : Dr. V. Lalitha, Professor, Department of Pharmacology



Figure 4: Peer review and critique by students

3. Work must be able to be reproduced and built on by other scholars – Yes. The uploaded videos and other instruction materials are available for other scholars and academicians of other colleges for their reference.

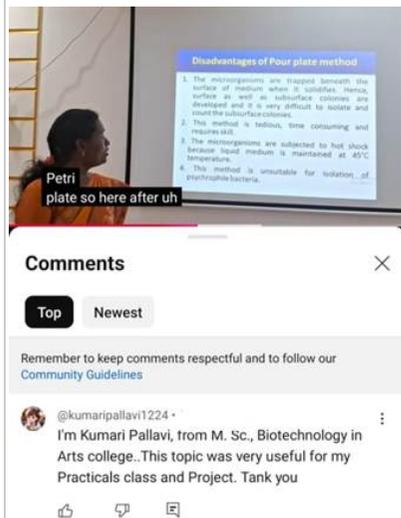


Figure 5: Image of Other Institutional Student's Comment

Google Classroom

Department use google classroom to maintain all course related documents digitally. Quiz programs and survey like course exit, program exit survey are conducted through google forms. The google classrooms are effectively used to provide notes and collects the assignment digitally.

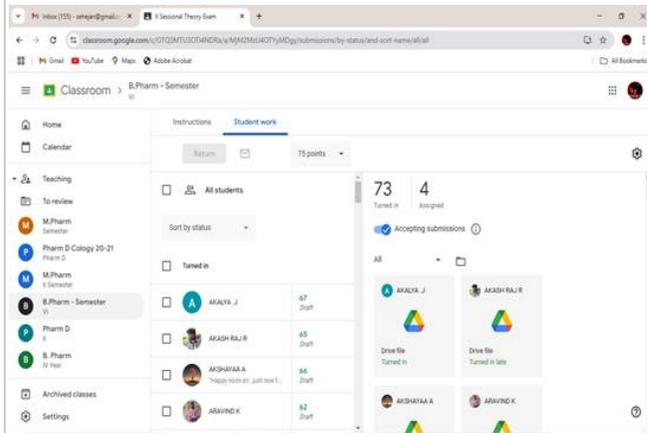


Figure 6: Google classroom Image

Quality teaching

All class rooms in the department is installed with projector to help the students to visualize the lecture and recall them more readily. All the lectures are recorded using power point presentation with a microphone and podium setup. Digitalized library setup helps the students to access online journals, e-books, and CDs containing updated project works. Wi-Fi and fixed internet access are accessible for students to use for webinars, online classes, and materials.

The mentor system enable students to assess the viability of new venture ideas, and experiential learning gives undergraduate and post graduate students the chance to supplement classroom instruction with practical exposure. Skill learning were developed by direct exposure to advanced equipments such a rotary flash evaporator, FTIR, UV spectrophotometer, digital ultrasonicator, high speed homogenizer, HPLC, FTIR, etc.



Figure 7: Smart Class Lecture



Figure 8: Mentor System



Figure 9: Digital Library



Figure 10: Skill Learning

Project based learning

Every year project based expo is conducted in the institutions which encourage the students to select the area of interest and do self study in specific area. The faculties are nominated as tutor for the self study. After the study, the students will be allowed to identify their skill difficulties of study area which will be rectified to proceed with project. The project will be displayed in the annual project expo conducted every year.



Figure 11: Innovation Expo Project

5.6 Faculty as participants in Faculty Development/Training Activities (15)

Total Marks 15.00

Name of the faculty	Max 5 Per Faculty		
	2024-25	2023-24	2022-23
Dr.T.Sivakumar	3.00	3.00	3.00
Dr. P. Amsa	5.00	5.00	5.00
Dr.S.Tamilzharasi	5.00	5.00	5.00
Dr. Apollo James	5.00	5.00	5.00
Dr. T. Prabha	5.00	5.00	5.00
Dr.M.Jagadeeswaran	5.00	5.00	5.00
Mrs. S. Sasikala	5.00	5.00	5.00
Mr. K Vinoth	3.00	5.00	3.00
Dr.R.Duraisami	5.00	5.00	5.00
Mr. K. Arun	3.00	3.00	0.00
Mrs. K.Gladys Kalpana	5.00	5.00	5.00
Mr. N. Chellappan	3.00	3.00	3.00
Dr.S.Hajasherief	5.00	5.00	5.00
Dr. K. Kamalakannan	5.00	5.00	5.00
Mr. M. Senthil	3.00	0.00	3.00
Mrs. G.Kiruthiga	5.00	5.00	5.00
Dr. K.P. Mohanraj	5.00	5.00	5.00
Mr. M. Ramamoorthi	3.00	0.00	3.00
Mrs. R.Sumathi	5.00	5.00	5.00
Ms. T. Kumutha	5.00	5.00	5.00

Dr. A. Sumathi	5.00	5.00	5.00
Dr. V. Lalitha	5.00	5.00	5.00
Dr. S. Sengottuvelu	5.00	5.00	5.00
Mrs. M. Thangamani	5.00	3.00	5.00
Mrs. S. Punitha	5.00	5.00	5.00
Mr. R. Saravanan	5.00	3.00	0.00
Dr. K. Srinivasan	5.00	5.00	5.00
Mrs.S.Sameema Begum	5.00	5.00	5.00
Mr. J. Thirumaran	5.00	5.00	5.00
Mr. PV Junaid Rahman	3.00	0.00	3.00
Mrs. Vanaja P	5.00	3.00	5.00
Dr. K.Menaka	5.00	5.00	5.00
Mrs. S.Sribhuvaneswari	5.00	5.00	5.00
Mrs. E. Manikkavalli	5.00	5.00	5.00
Ms. J. Sivaranjani	5.00	5.00	5.00
Ms. P. Haritha	5.00	5.00	5.00
Mr. R. Arulraj	3.00	5.00	5.00
Mrs. S.Hemalatha	5.00	5.00	5.00
Mr. Narenderan V	3.00	3.00	0.00
Ms. T. Moushmi	5.00	0.00	0.00
Mr. T. Parthiban	3.00	0.00	0.00
Dr. M. Vasudevan	0.00	3.00	3.00

Mr. Abrahamjekaraj	0.00	0.00	3.00
Mr. Mejo C Korah	0.00	3.00	5.00
Mrs. Hesly Rajan	0.00	3.00	5.00
Dr. N. Satheesh Babu	0.00	3.00	3.00
Mrs. Pricilla Mary	0.00	5.00	5.00
Mrs. Selvin Thanuja	0.00	5.00	5.00
Mrs. T. Rajakanni	0.00	3.00	3.00
Mr. R. Prasanna	0.00	0.00	3.00
Mrs. L Anitha	0.00	0.00	3.00
Mr. Saravana Kumar J	0.00	0.00	3.00
Mr. Arunkumar RK	0.00	0.00	5.00
Mr. R. Kumar	0.00	0.00	3.00
Mr. S. Prasanth	0.00	0.00	3.00
Ms. M. Poornima	3.00	0.00	0.00
Mr. M. Aravind	3.00	0.00	0.00
Mr. V. Suryaprasath	3.00	0.00	0.00
Mr. Nandhakumaran J	3.00	0.00	0.00
Mr. R. Sathishkumar	3.00	0.00	0.00
Mr. G. Vishnu	3.00	0.00	0.00
Mr. KR Syamprakash	3.00	0.00	0.00
Ms. Poulston Femin	3.00	0.00	0.00
Mrs. J. Sudha	3.00	0.00	0.00

Mr. Sakthisundaram S	0.00	3.00	0.00
Sum	212.00	194.00	220.00
RF = Number of Faculty required to comply with 15:1 Student Faculty Ratios per 5.1	48.13	48.40	48.33
Assessment [3*(Sum / 0.5RF)]	26.43	24.05	27.31

Average assessment over 3 years: 25.93

5.7 Research and Development (40)**Total Marks 31.00**

5.7.1 Academic Research (10)

Table 1: Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters

Year	Scopus	WOS/SCI	Others
CAY 2024	18	11	5
CAY m1 2023	20	23	7
CAY m2 2022	24	20	12

Table 2: Publication Details (2024-2025)

Author Names	Titile	Journal with ISSN Number	Vol/Iss/P.No	Indexing
Dwivedi, S., R, P., Sivakumar, T., Posa, M.K., Dhakar, R.C., Tiwari, R	Oncogenetics: Unraveling the Genetic Underpinnings of Cancer for Improved Immunotherapeutic Outcomes	Chinese journal of applied physiology ISSN 3030-5233	40:24-28	Scopus
Sameemabegum, S., Nallasivan, P.K.	Detailed Pharmacognostical Standardisation and Phytochemical Analysis of Whole Plant of Tephrosia barber — An Endemic Novel Medicinal Plant	Journal of Natural Remedies, ISSN 2320-3358	24(9):2055-2066	Scopus
Sameemabegum, S., Thilagavathi, R., Kumarnallasivan, P., Sivakumar, T	Hepatoprotective Effect of Ethanolic Extract of Whole Plant of Tephrosia barberi J. R. Drumm. in Paracetamol Induced Hepatotoxicity in Rats	Journal of Natural Remedies ISSN 2320-3358	24(7):1525-1535	Scopus

Sachithanandan, J.S., Deepalakshmi, M., Rajamohamed, H., Mary, P., Mohankumar, M., Vikashini, S.	Revolutionizing Antimicrobial Solutions Nanotechnology, CRISPR- Cas9 and Innovative Approaches to Combat Drug Resistance in ESKAPE Pathogens	Journal of Pure and Applied Microbiology ISSN 0973-7510	18(2):808-822	Scopus, WOS
Manickam, V., Mani, G., Muthuvel, R., Pushparaj, H., Jayabalan, J., Pandit, S.S., Elumalai, S., Kaliappan, K., Tae, J.H.	Green fabrication of silver nanoparticles and its in vitro anti-bacterial, anti- biofilm, free radical scavenging and mushroom tyrosinase efficacy evaluation	Inorganic Chemistry Communications ISSN 1387-7003	18(2):808-822	Scopus
Uddand Rao, V.V.S., Chandrasekaran, P., Saravanan, G., Brahmanaidu, P., Sengottuvelu, S., Ponmurugan, P., Vadivukkarasi, S., Kumar, U	Phytoformulation with hydroxycitric acid and capsaicin protects against high-fat-diet-induced obesity cardiomyopathy by reducing cardiac lipid deposition and ameliorating inflammation and apoptosis in the heart	Journal of Traditional and Complementary Medicine, ISSN 2225-4110	14(2):162-172	Scopus, WOS
Mahadevi, R., Shivakumar, M.S., Natarajan, D., Sengottuvelu, S., Ramamoorthy, K.	Anti-inflammatory and Wound Healing Properties of Curcuma amada and Oregano Essential Oil Derived Hydrogel on Wistar Albino Rats	Journal of Chemical Health Risks ISSN 2251-6719	14(4):817-827	Scopus
Sangeetha, M., Sasirekha, S., Mahendran, J., Sivarajan, A., Radhakrishnan, M., Manigundan, K., Dastager, S.G., Sengottuvelu, S., Balagurunathan, R	Multifunctional metabolites of Streptomyces kunmingensis BS19 from bamboo rhizosphere soil	International Microbiology, ISSN 1139-6709	7(2):136-141	Scopus, WOS

Ganesan, R., Premkumar, K.G., Thangavelu, S., Chellappa, S., Vivekanandan, L., Veerasamy, R., Kumar, M.R.P., Thangavelu, P	Targeting ADA and HIV-1 Nef Protein with Protease Inhibitors: A Repurposing Strategy through Molecular Networking and an In silico Approach for Integrated Management of HIV Co-infected with Abdominal Tuberculosis	Letters in Drug Design and Discovery ISSN 1570-1808	21(13):2684- 2696	Scopus
Parameswaran, D., Thangavelu, S., Selvaraj, J., Chellappa, S., Vivekanandan, L., Veerasamy, R., Thangavelu, P	Design, Synthesis, and in vitro Evaluation of Derivatives of Quinoxaline- 2One as a Myeloperoxidase Modulator Using in silico Methods	Current Bioactive Compounds ISSN 1875-6646	20(8):1-11	Scopus
Vivekanandan, L., Thangavelu, P., Murugesan, J., Selvaraj, H.	Role of Sapindus emarginatus Pericarp Extract in Gut Serotonin Level and its Emetic Activity in Animal Models	Current Bioactive Compounds ISSN 1875-6646	20(1):1-9	Scopus
Uddand Rao, V.V.S., Eraniappan, S., Balakrishnan Ramajayam, A., Singaravel, S., Roy, A., Parim, B.N., Ponnusamy, C., Ganapathy, S., Ponnusamy, P., Sasikumar, V	Hydroxycitric acid and capsaicin combination alleviates obesity-induced testicular apoptosis, oxidative stress and inflammation	Systems Biology in Reproductive Medicine ISSN 1939-6368	70(1):20-37	Scopus, WOS
Dhamotharaswamy, K., Selvaraj, H., Lakshmanaperumal, P., Harsha, R., Sasankan, A.S., Thangavelu, P., Menaka, K., Thangavel, S	Diabetes and TB: Confluence of Two Epidemic and Its Effect on Clinical Presentation	Current Diabetes Reviews, ISSN 1573-3998	20(1):59-66	Scopus, WOS
Theivasigamani, K., Palaniappan, S	An Overview of Pharmaceutical Care in Type II Diabetes Mellitus Patients: Current Position and Prospects	Current Diabetes Reviews ISSN 1573-3998	20(2):13-17	Scopus, WOS

Dhamocharaswamy, K., Selvaraj, H., Chidambaram, K., Dhanasekaran, M., Duraisamy, K., Khan, N.A., Thangavel, S.	An impactful prospective study on pulmonary tuberculosis in geriatric populations besides its clinical outcomes and implications in the Indian subcontinent	European Review for Medical and Pharmacological Sciences ISSN 2284-0729	28(1):269-277	Scopus, WOS
Gadgeppa, B.O., Raman, B.M., Mani, G., Sidram, G.P., Pandit, S.S., Jaybalan, J., Kaliappan, K., Pushparaj, H., Hyun Tae, J.	Phytogenic synthesis of silver nanoparticles using <i>Achyranthes japonica</i> root and its in vitro antimicrobial, antioxidant, and mushroom tyrosinase inhibitions	Particulate Science and Technology ISSN 1548-0046	42(1):107-119	Scopus
Kumutha, Theivasigamani; Velavan, Kandappan; Saravanan, Govindaraj; Padmashree, Lakshmanaperumal; Malar, Balakrishnan Nandhinee; Harsha, Rajasekhar; Sasankan,	Evaluating and minimising the psychological stress to enhance medication adherence among cancer patients by implementing integrative oncology techniques	Oncology In Clinical Practice ISSN 2450-1654	13:22-27	WOS
Kaliyan, Menaka; Thangavel, Prabha; Palaniappan, Senthilkumar	Teneligliptin as an Adjuvant Therapy in Type 2 Diabetic Management: A Prospective Observational Study	Journal Of Young Pharmacists ISSN 0975-1483	16(2):315-321	WOS
Kaliappan, Kamalakkannan; Sivasankari, Madheswaran; Jayabalan, Jayaprakash; Bhang, Manjusha; Pushparaj, Hemalatha; Elumalai, Selvaraja; Pandit, Sachin Sivajirao;	Versatile silver nanoparticle using <i>Tradescantia spathacea</i> leaf extract: Synthesis, physicochemical, in vitro biological activity and photocatalytic evaluations	Inorganic Chemistry Communications ISSN 1387-7003	171:27-32	WOS

Manickam, Vijayabaskaran; Mani, Ganesh; Muthuvel, Rajarajan; Pushparaj, Hemalatha; Jayabalan, Jayaprakash; Pandit, Sachin Sivajirao; Elumalai, Selvaraja; Kaliappan,	Green fabrication of silver nanoparticles and its in vitro anti-bacterial, anti-biofilm, free radical scavenging and mushroom tyrosinase efficacy evaluation	Inorganic Chemistry Communications ISSN 1387-7003	162:18-27	WOS
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Table 3: Publication Details (2023-2024)

Author Names	Titile	Journal	Vol/Iss/P.No	Indexing
Selvaraj H.; Damadarosamy K.; Kiruthiga N.; Rani K.R.V.; Duraisamy K.; Dhanasekaran M.; Deruiter J.; Ren J.; Thangavel S.; Parise R.	Critical Clinical Evaluation of COVID-19 Patients with Tuberculosis in the Indian Sub-Continent	Current Drug Safety ISSN 1574-8863	18(3):276-283	Scopus/ WOS
Venkatesan J.; Thangavelu P.; Jubie S.; Jayapalan S.; Sivakumar T.	A Machine Learning Language to Build a QSAR Model of Pyrazoline Derivative Inhibitors Targeting Mycobacterium tuberculosis Strain H37Rv	Letters in Drug Design and Discovery ISSN 1875-628X	20(8):167-180	Scopus/ WOS
Antony Samy J.V.R.; Kumar N.; Singaravel S.; Krishnamoorthy R.; Aishuniaber M.A.; Gatasheh M.K.; Venkatesan A.; Natesan V.; Kim S.-J.	Effect of Prunetin on Streptozotocin-Induced Diabetic Nephropathy in Rats-a Biochemical and Molecular Approach	Biomolecules and Therapeutics ISSN 2005-4483	31(6):619-628	Scopus
Thangavelu S.; Thangavelu P.; Pradeep Kumar M.R.; Singaravel S.; Vivekanandan L.; Murugesan J.; Thangavel S.	A Computational Study of Famciclovir Derivatives Against Thymidine Kinase as a Molecular Target for the Development of Novel Anticancer Drugs via Suicide Gene Therapy	Current Drug Discovery Technologies ISSN 1570-1638	20(5):71-82	Scopus

Revathi R.; Akash R.; Mahadevi R.; Sengottuvelu S.; Mohanraj P.; Vijayakumar N.; Krishnamoorthy R.; Ahmed M.Z.; Kazmi S.; Kavitha R.	Phytochemical characterization, antioxidant and antibacterial activities of crude extracts of Anisomeles malabarica and Coldenia procumbens	Journal of Toxicology and Environmental Health - Part A: Current Issues ISSN 1528-7394	86(17):614-631	Scopus
Jansy Isabella Rani A.; Uddandrao V.V.S.; Sangeethadevi G.; Saravanan G.; Chandrasekaran P.; Sengottuvelu S.; Tamilmani P.; Sethumathi P.P.; Vadivukkarasi S.	Biochanin A attenuates obesity cardiomyopathy in rats by inhibiting oxidative stress and inflammation through the Nrf-2 pathway	Archives of Physiology and Biochemistry ISSN 1744-4160	129(3):788-798	Scopus
Eraniappan S.; Balasubramaniyan P.; Uddandrao V.V.S.; Roy A.; Singaravel S.	Beta-glucan suppresses high-fat-diet-induced obesity by attenuating dyslipidemia and modulating obesogenic marker expressions in rats	Fundamental and Clinical Pharmacology ISSN 0767-3981	37(3):629-638	Scopus
Chaitanya M.V.N.L.; Selvaraj J.; Palanisamy D.; Thangavelu P.; Usamo F.B.	Phytochemical and in-vitro Biological Investigation of Indian Traditional Medicinal Plants for their Cytotoxicity and Hepatoprotective Potential	Current Drug Research Reviews ISSN 2589-9775	15(1):73-87	Scopus
Sethumathi P.; Uddandrao V.V.; Chandrasekaran P.; Sengottuvelu S.; Tamilmani P.; Ponmurugan P.; Vadivukkarasi S.; Santhanakumar M.; Begum M.; Saravanan G.	Biochanin-A attenuates high-fat diet and streptozotocin-induced hyperlipidemia and oxidative stress in rats by improving antioxidant status and lipid metabolic markers	Asian Pacific Journal of Tropical Biomedicine ISSN 1995-7645	13(11):460-468	Scopus

Periyasamy T.; Sathibabu Uddandrao V.V.; Ponnusamy C.; Ganapathy S.; Pudhupalayam S.P.; Singaravel S.; Ponnusamy P.; Ramasamy J.; Aiyasamy K.; Sasikumar V.	Linalool Mitigated High-Fat Diet-Induced Non-alcoholic Fatty Liver Disease by Regulating the Intestinal-Hepatic Axis via TGF- β /NF-kB/TLR4/ZO-1 Pathway	Revista Brasileira de Farmacognosia ISSN 0102-695X	33(3):617-628	Scopus
Roy A.; Neelakantappa V.M.; Ganesan J.; Asokan B.R.; Kulandaivel S.; Uddandrao V.V.S.; Singaravel S.	Beta-glucan protects against isoproterenol-induced cardiac remodeling by regulating the ACE-AT1R axis and attenuates cardiac inflammation and apoptosis	Asian Pacific Journal of Tropical Biomedicine ISSN 1995-7645	13(9):384-392	Scopus
Thaman J.; Pal R.S.; Chaitanya M.V.N.L.; Yanadaiah P.; Thangavelu P.; Sharma S.; Amoateng P.; Arora S.; Sivasankaran P.; Pandey P.; Mazumder A.	Reconciling the Gap between Medications and their Potential Leads: The Role of Marine Metabolites in the Discovery of New Anticancer Drugs: A Comprehensive Review	Current Pharmaceutical Design ISSN 1873-4286	29(39):3137-53	Scopus
Tamilmani P.; Sathibabu Uddandrao V.V.; Chandrasekaran P.; Saravanan G.; Brahma Naidu P.; Sengottuvelu S.; Vadivukkarasi S.	Linalool attenuates lipid accumulation and oxidative stress in metabolic dysfunction-associated steatotic liver disease via Sirt1/Akt/PPRA- α /AMPK and Nrf-2/HO-1 signaling	Clinics and Research in Hepatology and Gastroenterology ISSN 2210-7401	47(10):32-45	Scopus
Thilagavathi R.; Begum S.S.; Varatharaj S.D.; Balasubramaniam A.K.; George J.S.; Selvam C.	Recent insights into the hepatoprotective potential of medicinal plants and plant-derived compounds	Phytotherapy Research ISSN 0951-418X	37(5):2102-18	Scopus/ WOS

Jayaprakash V.; Saravanan T.; Ravindran K.; Prabha T.; Selvaraj J.; Jayapalan S.; Chaitanya M.V.N.L.; Sivakumar T.	Relevance of Machine Learning to Predict the Inhibitory Activity of Small Thiazole Chemicals on Estrogen Receptor	Current Computer-Aided Drug Design ISSN 1573-4099	19(1):37-50	Scopus/ WOS
Selvaraj N.B.; Swaroop A.K.; Mariappan E.; Natarajan J.; Thangavelu P.; Selvaraj J.	Effect of Calcitriol in Inhibiting the Cancer Cell Growth and Promoting Apoptosis in ErbB2-positive Breast Cancer Cells	Anti-Cancer Agents in Medicinal Chemistry ISSN 1875-5992	23(18):2056-71	Scopus
Vivekanandan, L; Gunasekaran, S; Ponnusamy, S; Thangavel, P	Antiarthritic and Antioxidant Potential of Ethanolic Unripened Fruit Extract of Luffa Acutangula (L.) Roxb Against FCA-induced Arthritic Rats	Advances In Pharmacology And Pharmacy ISSN 2332-0036	11(3):214-223	WOS
Radhakrishnan, R; Selvaraj, H; Chidambaram, K; Kv, A; James, A; Thangavel, S	Prevalence of Depression and Anxiety Disorders Among Cancer Patients: An Insight From a Single Institute	Cureus Journal Of Medical Science ISSN 2168-8184	15(8):43-51	WOS
Bhuvanewari, SS; Prabha, T; Begum, SS; Kammalakannan, K; Sivakumar, T	Assessment of biological activity of ethanolic leaf extract of Zaleya decandra L.	Annals Of Phytomedicine-An International Journal ISSN 2393-9885	12(1):795-800	WOS
Kumar, PM; Amsa, P; Lalitha, V; Unni, C; Tamizharasi, S; Prabha, T; Sivakumar, T	Biofabrication of silver nanoparticles from the root extract of Withania somnifera (L.) Dunal and an investigation of their anti-inflammatory and antibacterial activity	Annals of Phytomedicine ISSN 2393-9885	12(2):809-817	WOS
Sameemabegum, S; Prabha, T; Sribhuvanewari, S; Sivakumar, T	Morphoanatomical, pharmacotaxonomical, physiochemical and phytochemical profiles, including TLC and HPTLC analysis of Ipomoea pes-tigridis L.	Annals of Phytomedicine ISSN 2393-9885	12(2):882-891	WOS

Pavithra, J; Sherief, SH; Sengottuvelu, S; Lalitha, V	Antiallergic activity of leaves of Hibiscus mutabilis L. in mast cell mediated allergy model	Annals of Phytomedicine ISSN 2393-9885	12(1):376-381	WOS
Selvinthanuja, C; Prabha, T; Yogappasath, TL; Vanan, NT; Kumar, RV; Ranjith, R; Sivakumar, T	Synthesis and docking study of aryl acetamide derivatives as an antimicrobial agents	Annals of Phytomedicine ISSN 2393-9885	12(1):467-476	WOS
Anto, S; Tamizharasi, S; Prabha, T; Gocika, G; Punitha, S; Thirumaran, J; Amsa, P; Sumathi, R	Nanoemulgel as an innovative platform for phytomolecules	Annals of Phytomedicine ISSN 2393-9885	12(2):239-245	WOS
Malaiyan, MM; Kumar, PM; Logesh, P; Sibi, K; Tamizharasi, S; Nandhakumaran, J; Janani, S; Prabha, T	Discovering the epigenetic pathways underlying SARS-CoV-2 infections and exploring recent epigenetic-associated clinical trials	Annals of Phytomedicine ISSN 2393-9885	12(2):12-20	WOS
Staines, MJ; Sengottuvelu, S; Sherief, SH; Lalitha, V	Aphrodisiacs: A short review on naturally available sexual boosters	Annals of Phytomedicine ISSN 2393-9885	12(1):39-50	WOS
Selvakumar, D; Sivanandy, P; Ingle, PV; Theivasigamani, K; Negrean, V	Relationship between Treatment Burden, Health Literacy, and Medication Adherence in Older Adults Coping with Multiple Chronic Conditions	Medicina-Lithuania ISSN 1010-60x	59(8):120-130	WOS
Gadgeppa, BO; Raman, BM; Mani, G; Sidram, GP; Pandit, SS; Jaybalan, J; Kaliappan, K; Pushparaj, H; Tae, JH	Phytogenic synthesis of silver nanoparticles using Achyranthes japonica root and its in vitro antimicrobial, antioxidant, and mushroom tyrosinase inhibitions	Particulate Science And Technology ISSN 0272-6351	42(1):107-119	WOS

Table 4: Publication Details (2022-2023)

Author Names	Title	Journal	Vol/Iss/P.No	Indexing
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Vivekanandan L.; Murukeasan R.; Natarajan K.; Sheik H.; Singaravel S.; Thangavel S.	Anti-Alzheimer's Activity of Methanolic Tender Green Pod Extract of Cyamopsis Tetragonoloba (L.) Taub. on Scopolamine Induced Amnesia in Mice	Current Bioactive Compounds ISSN 1573-4072	18(7):22-35	Scopus
Uvais N.A.; Moideen S.; Rajagopal S.; Maheshwari V.; Gafoor A.T.A.	Psychological Morbidity Among COVID-19 Survivors: A Cross-Sectional Study Among Health Care Workers	Primary Care Companion for CNS Disorders ISSN 2155-7780	24(3):15-21	Scopus
Naresh P.; Rajesh Kumar R.; Vishwas H.N.; Rajagopal G.; Prabha T.; Jubie S.	Larvicidal and histopathological efficacy of cinnamic acid analogues: a novel strategy to reduce the dengue vector competence	RSC Advances ISSN 2046-2069	12(16):9793- 9814	Scopus
Venkatesan A.; Roy A.; Kulandaivel S.; Natesan V.; Kim S.- J.	p-Coumaric Acid Nanoparticles Ameliorate Diabetic Nephropathy via Regulating mRNA Expression of KIM-1 and GLUT-2 in Streptozotocin-Induced Diabetic Rats	Metabolites ISSN 2218-1989	12(12):14-24	Scopus/ WOS
Asokan B.R.; Jaikumar S.; Sengottuvelu S.	Zingiberene Protects from Isoproterenol-Induced Cardiotoxicity via Attenuation of Hyperlipidemia and Oxidative Stress in Rats	Revista Brasileira de Farmacognosia ISSN 1981-528X	32(1):74-80	Scopus/WOS
Arumugam K.; Elangovan K.; Karthika T.; Sangeetha R.K.; Vikashini S.	Geochemical Modeling of Groundwater in Tirupur Region, Tamil Nadu, India	Lecture Notes in Civil Engineering ISSN 2366-2565	178:435-446	Scopus
Selvaraj J.; Prabha T.; Kumar T.D.A.; Palaniappan S.	Artificial Intelligence in Biomedical Image Processing	Machine Learning and Systems Biology in Genomics and Health ISSN 2688-5107	14:147-188	Scopus

Manickavalli E.; Kiruthiga N.; Vivekanandan L.; Roy A.; Sivakumar T.	Computational Studies and Biological Evaluation on Synthesized Lead 1,3- diphenyl-4,5-dihydro-1H- pyrazole Moiety as Anti- Infective Agents	Anti-Infective Agents ISSN 2211-3525	20(5):5-17	Scopus
Pudhupalayam S.P.; Uddandrao V.V.S.; Ponnusamy C.; Singaravel S.; Periyasamy T.; Ponnusamy P.; Sasikumar V.; Begum M.S.; Ganapathy S.	Biochanin A Attenuates Hyperglycemia in High-Fat Diet–Streptozotocin–Induced Diabetic Rats by Modulating the Activities of Carbohydrate–Metabolizing Enzymes in Vital Organs	Revista Brasileira de Farmacognosia ISSN 1981-528X	32(4):608-617	Scopus/WOS
Easwaramoorthi M.; Manibarathi B.; Mathesan R.; Mithiran M.; Rajesh R.; Sivakumar T.	Investigation of water recovery from sewage using solar thermal technology	Journal of Physics: Conference Series ISSN 1742-6596	231(1):18-27	Scopus
Subitha R.; Senthilkumar P.; Gobinath K.	In vivo wound healing potential of chitosan gel based silver nanoparticles synthesized from <i>Martynia annua</i>	Research Journal of Biotechnology ISSN 2278-4535	17(9):119-133	Scopus/WOS
Chaitanya M.V.N.L.; Papathoti N.K.; Usamo F.B.; Palanisami D.; Selvaraj J.; Thangavelu P.	Phytochemical Investigation and Cytotoxic Profile of Genistein Isolated from the <i>Cytisus scoparius</i> Linn. on Topoisomerase II	Current Bioactive Compounds ISSN 1573-4072	18(8):54-63	Scopus
James A.; Khanam J.; Palanisamy M.; Radhakrishnan A.	Preparation and Bio Pharmaceutical Evaluation of Chrono Pharmaceutical Drug Delivery System of Atenolol	Journal of Medical Pharmaceutical and Allied Sciences ISSN 2320-7418	11(2):4761- 4769	Scopus
Sivaraj R.; Jaikumar S.; Sengottuvelu S.	Zingiberene attenuates high fat diet–induced non- alcoholic fatty liver disease through suppression of lipogenesis and oxidative stress in rats	Comparative Clinical Pathology ISSN 1618-5641	31(2):201-209	Scopus

Uddandrao V.V.S.; Parim B.; Singaravel S.; Ponnusamy P.; Ponnusamy C.; Sasikumar V.; Saravanan G.	Polyherbal Formulation Ameliorates Diabetic Cardiomyopathy Through Attenuation of Cardiac Inflammation and Oxidative Stress Via NF- κ B/Nrf-2/HO-1 Pathway in Diabetic Rats	Journal of Cardiovascular Pharmacology ISSN 1533-4023	79(1):75-86	Scopus/WOS
Sangeethadevi G.; V. V S.U.; Jansy Isabella R.A.R.; Saravanan G.; Ponmurugan P.; Chandrasekaran P.; Sengottuvelu S.; Vadivukkarasi S	Attenuation of lipid metabolic abnormalities, proinflammatory cytokines, and matrix metalloproteinase expression by biochanin-A in isoproterenol-induced myocardial	Drug and Chemical Toxicology ISSN 1525-6041	45(5):1951- 1962	Scopus
Meenu N.C.; Manokari S.L.; Yogeswari G.; Duraismi R.	Analysis of phytochemical constituents and antibacterial activity of Wrightia tinctoria: traditional medicinal plant of India for application on wound dressing materials	Indian Journal of Traditional Knowledge ISSN 0972-5938	21(1):48-54	Scopus
Vivekanandan L.; Singaravel S.; Thangavel S.	Favorable Aspects of Silymarin in Linezolid Treatment Against Diabetic Methicillin-Resistant Staphylococcus aureus (MRSA) Infected Rats	Letters in Drug Design and Discovery ISSN 1570-1808	19(10):938-949	Scopus
Khatale P.N.; Bhajipale N.S.; Thangavel S.; Thangavelu P; Mahajan N.S.	Synthesis, antiinflammatory evaluation and docking analysis of some novel 1,3,4- oxadiazole derivatives	Indian Journal of Chemistry ISSN 2583-1321	61(2):607-616	Scopus
Vivekanandan, Lalitha; Bharathi, G. S. Sri; Murugesan, Jagadeeswaran; Natarajan, Kiruthiga; Thangavel, Sivakumar	Anti-Alzheimers and Antioxidant Activity of Ethanollic Seed Extract of Sapindus emarginatus Vahl on Scopolamine-Induced Cognitive Impairment in Mice	Advances In Pharmacology And Pharmacy ISSN 2332-0044	10(3):190-198	WOS

Sameemabegum, S.; Prabha, T.; Sribhuvanewari, S.; Ravisankar, T.; Pavithra, B.; Somasundram, S.	Assessment of the antioxidant and anti-inflammatory activities of Ipomoea pes-tigridis L. leaves	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(2):550-557	WOS
Lalitha, V; Shila, G.; Amsa, P; Prabha, T.; Saravanan, R.; Madhavan, R.	The indispensable role of herbs and other treatment strategies against gallstones	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(2):52-64	WOS
Amsa, P; Gandh, K. Sanjay; Tamizharasi, S.; Prabha, T.; Senthil, M.; Saravanan, R.; Sivakumar, T.	Design, formulation and evaluation of piperine proliposomal drug delivery system for its anti-inflammatory and antibacterial activity	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(2):573-582	WOS
Murugesan, A.; Rajasekaran, K.; Ramamoorthy, M.; Johnson, Vishal	Influence of FEF (N550) Carbon Black on Rheological and Physico-mechanical Properties of SBR Vulcanizate for Tyre Application	Journal Of Polymer & Composites ISSN 2321-2810	10(3):48-58	WOS
Manickavalli, E.; Prabha, T.; Thanuja, C. Selvin; Latha, S. M. R.; Anitha, D.; Kiruthika, G.; Haritha, P.; Sivakumar, T.	Evaluation of a fruit peel ethanolic extract of Ananas comosus (L.) Merrill (pineapple) as an anti-inflammatory agent in an experimental animal model	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(2):558-562	WOS
Vivekanandan, Lalitha; Singaravel, Sengottuvelu; Thangavel, Sivakumar	Favorable Aspects of Silymarin in Linezolid Treatment Against Diabetic Methicillin-Resistant Staphylococcus aureus (MRSA) Infected Rats	Letters In Drug Design & Discovery ISSN 1570-1808	19(10):938-949	WOS
Manjuparkavi, K.; Sethumathi, P. P.; Lalitha, V; Sengottuvelu, S.; Prabha, T.; Menaka, M.; Moushmi, A.; Anitha, D.	Assessment of Thaalaga parpam: A herbomineral formulation through systematic spectroscopic analysis, acute toxicity testing and in vivo anti-inflammatory activity	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(2):290-295	WOS

Sarojini, T.; Vadivelan, S.; Manjuparkavi, K.; Lalitha, V; Sethumathi, P. P.; Praniga, K.; Menaka, M.; Meena, T.	An antidiarrheal activity on Chukkupodi: A Siddha formulation	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	32(1):74-80	WOS
Khatale, Pravin N.; Bhajipale, Nitin S.; Thangavel, Sivakumar; Thangavelu, Prabha; Mahajan, N. S.	Synthesis, antiinflammatory evaluation and docking analysis of some novel 1,3,4- oxadiazole derivatives	Indian Journal Of Chemistry ISSN 0019-5103	11(2):284-289	WOS
Meenu, N. C.; Manokari, S. L.; Yogeswari, G.; Duraismi, R.	Analysis of phytochemical constituents and antibacterial activity of Wrightia tinctoria: traditional medicinal plant of India for application on wound dressing materials	Indian Journal Of Traditional Knowledge ISSN 0972-5938	61(6):607-616	WOS
Vijayalakshmi, A.; Prabha, T.; Lalitha, V.; Hemalatha, S.; Jagadeeswaran, M.; Chaitanya, M. V. N. L.; Selvamani, P.; Latha, S.	Dietary carotenoid fucoxanthin as a promising biomarker to target the cancer cells: A focused review	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	17(9):119-133	WOS
Chitra, M.; Roopa, S.; Sivakumar, P.; Prabha, T.; Karunakaran, V; Sujatha, P; Selvaraj, K. S. Vijai	A recent report on the effect of moringa leaf (Moringa oleifera Lam.) as a biostimulant in the growth and physiochemical traits of agricultural crops	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(2):224-230	WOS
Vijayalakshmi, A.; Sumitra, M.; Prabha, T.; Lalitha, V.; Bhuvaneswari, S. Sri; Hemalatha, S.; Selvamani, P.; Latha, S.	Medicinal plants for the treatment of erythrasma: A review	Annals Of Phytomedicine-An International Journal ISSN 2278-9839	11(1):201-205	WOS

Azhagarasi, P.; Vijayalakshmi, A.; Surya, C.; Prabha, T.; Kiruthiga, N.; Kumar, R. Senthil; Selvamani, P.; Latha, S.	Anti Diabetetic Activity of Illupai Ver Chooranam on Streptozotocin Diabetic Rats	International Journal Of Life Science And Pharma Research ISSN 2250-0480	12(3):L73-L79	WOS
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Table 5: Book Chapter (2023-2024)

Author Names	Titile	Journal	Vol/Iss/P.No	Indexing
Selvaraj J.; Chaitanya M.V.N.L.; Swaroop A.K.; Thangavelu P.; Pal R.S.	Anticancer phytochemicals of 21st century: A multitargeted approach and role of humanism in oncology	Alternative Remedies and Natural Products for Cancer Therapy: An Integrative Approach ISBN 978-981-5124-70-5	122-138	Scopus
Thangavelu P.; Selvaraj J.; Pal R.S.; Badavath V.N.	The Indian cytotoxic weed flora and their phytochemicals	Alternative Remedies and Natural Products for Cancer Therapy: An Integrative Approach ISBN 978-981-5124-70-5	49-96	Scopus
Gounder P.S.; Ponnusamy S.; Selvaraj H.; Alharbi H.F.; Mohandoss K.; Bhupathyraaj M.	Role of Artificial Intelligence (AI) Drug Discovery and Development	Artificial Intelligence in Pharmaceutical Sciences ISBN 978-100-334-3981	54-73	Scopus
Gounder P.S.; Ponnusamy S.; Selvaraj H.; Ganesh M.; Chacko L.; Alharbi H.F.; Rajamani Y.S.	Artificial Intelligence in Pharmaceutical Healthcare	Artificial Intelligence in Pharmaceutical Sciences ISBN 978-100-3343-981	74-95	Scopus

Table 6: Book Chapter (2022-2023)

Jaikumar S.; Somasundaram G.; Sengottuvelu S.	Zingiberene, an Active Constituent from Zingiber officinale Ameliorated High- Fat Diet-Induced Obesity Cardiomyopathy in Rats	Advancements in Cardiovascular Research and Therapeutics: Molecular and Nutraceutical Perspectives ISBN 978-981-5050- 83-7	171-185	Scopus
Sri Bharathi G.S.; Sakthi Sundaram S.; Prabhakaran S.; Lalitha V.; Haja Sherief S.; Duraisami R.; Sengottuvelu S.	Congestive Heart Failure: Insight on Pharmacotherapy	Advancements in Cardiovascular Research and Therapeutics: Molecular and Nutraceutical Perspectives ISBN 978-981-5050- 83-7	25-37	Scopus
Somasundaram G.; Jaikumar S.; Sengottuvelu S.	Betaine, a Nutraceutical Ameliorated Myocardial Infarction by Attenuation of Pro-Inflammatory Cytokines and Matrix Metalloproteinase Production in Rats	Advancements in Cardiovascular Research and Therapeutics: Molecular and Nutraceutical Perspectives ISBN 978-981-5050- 83-7	186-200	Scopus
Uddandrao V.V.S.; Sethumathi P.P.; Naidu P.B.; Vadivukkarasi S.; Begum M.S.; Saravanan G.	Ameliorative Potential of Biochanin-A against Dexamethasone Induced Hypertension through Modulation of Relative mRNA and Protein Expressions in Experimental Rats	Advancements in Cardiovascular Research and Therapeutics: Molecular and Nutraceutical Perspectives ISBN 978-981-5050- 83-7	156-170	Scopus
Chintamaneni P.K.; Thangavelu P.; Chaitanya M.V.N.L.; Ali H.S.; Usamo F.B.	Natural products as pharmaceutical additives in drug delivery systems	Plant Polysaccharides as Pharmaceutical Excipients ISBN 978-0-323- 90780-4	45-81	Scopus

Table 7: Ph.D awarded during the assessment year

Year	Ph.D Awarded
CAY	3
CAY m1	1
CAY m2	-

Table 8: Details of Ph.D awarded Faculties

Year	Faculty Name	University	Regn No	Awarded Date
CAY	Mrs. S.Hemalatha	Karpagam Univrsity, Coimbatore	20DRPPY002	1 st July 2024
	Mrs. K.Menaka	Karpagam Univrsity, Coimbatore	20DRPPY005	3rd July 2024
	Ms. T. Kumutha	Karpagam Univrsity, Coimbatore	20DRPPY004	3 rd Sep 2024
CAY m1	Mr. Apollo James	Jadavpur Universiry, Kolkata	T5D099009	4 th July 2023

Table 9: Ph.D Guided/Member in Doctoral Committee

Year	Faculty Name	University	Name of the Student	Ref No
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CAY	Dr. T. Prabha	The Tamilnadu Dr. MGR Medical University, Chennai	Mr. G. Rajaram	Ex.II(5)/2751/2024 dt 20.11.2024
	Dr. T. Prabha	The Tamilnadu Dr. MGR Medical University, Chennai	Mrs. F. Sathyamary	Ex.II(5)/01783/2022 dt 12.06.2024
	Dr. T. Prabha	SRM Institute of Science and Technology, Chennai	DR Aanya Verma	RC2523001011006
	Dr. S. Sengottuvelu	The Tamilnadu Dr. MGR Medical University, Chennai	Dr. S. Vadivelan	Ex.II(5)/39140/2023 dt 11.11.2024
	Dr. S. Sengottuvelu	The Tamilnadu Dr. MGR Medical University, Chennai	Dr. T. Sarojini	Ex.II(5)/39141/2023 dt 11.11.2024
CAY m1	Dr. S. Sengottuvelu	SRM Institute of Science and Technology, Chennai	Mr. K. Nitheesh Kumar	PA2323001013004
	Dr. S. Sengottuvelu	SRM Institute of Science and Technology, Chennai	Mr. B. Prathap	PA2243007013001
	Dr. S. Sengottuvelu	SRM Institute of Science and Technology, Chennai	Ms. Arya VS	PC2323001013001
CAY m2	Dr. T. Prabha	JSS Academy of Higher Education & Research, Mysuru	Mr. R. Balaji	JSSHER/COE/PHD/2022- 23/1275

2024-25

Project Title	Duration	Funding Agency	Amount (in Rupees)
Formulation and Evaluation of cardiovascular effects of novel nanoparticle loaded PHF	6 Months	Medquin Pharma Pvt. Ltd., Chennai	575000.00
Revolutionary Medicine with Cutting –edge AI from the computer lab to the clinical lab	1 Year	The TN Dr. MGR Medical University, Chennai	200000.00
Development of flavonoid formulation and screen for its specific cardiovascular disorders	6 Months	Aarovin Pharmaceuticals, Chennai	650000.00
			Total Amount(X): 1425000.00

2023-24

Project Title	Duration	Funding Agency	Amount (in Rupees)
Anticough activity using ammonia liquor induced cough model in mice	6 Months	Dabur research foundation, Gaziabad	328000.00
			Total Amount(Y): 328000.00

2022-23

Project Title	Duration	Funding Agency	Amount (in Rupees)
Chemo-modulatory activity of Polyherbal Formulation	6 Months	Aarovin Pharmaceuticals Private Limited, Chennai	125500.00
Antidiabetic drug Development	6 Months	Iyarkai herbal Products, Erode	110250.00
			Total Amount(Z): 235750.00

Cumulative Amount(X + Y + Z) = 1988750.00

5.7.3 Consultancy (from Industry) (10)

Institute Marks : 8

2024-25

Project Title	Duration	Funding Agency	Amount (in Rupees)
FTIR analytical study	7 days	Microcore Research Laboratories India Pvt Ltd, Erode	7500.00
Evaluation of Anticancer potential of Beta-glucan against DMBA induced breast cancer in mice	120 days	KS Rangasamy College of Arts and Science, Tiruchengode	95000.00
Microbiological Assay of silver nanoparticle loaded Punica granatum peel extract	7 days	Erode arts and science College, Erode	12500.00
Evaluation of anticancer potential of partially purified polysaccharide from Lentinula edodes (mushroom) against DMBA induced breast cancer: an In-vivo mechanistic approach	120 days	KS Rangasamy College of Arts and Science, Tiruchengode	95000.00
FTIR analysis	7 days	Excel College of Pharmacy, Kumarapalayam	6000.00
Evaluation of anti-obesity efficacy of polyherbal drug against high fat diet induced obesity in rats	60 days	KS Rangasamy College of Arts and Science, Tiruchengode	85000.00
Evaluation of cardioprotective efficacy of a polyherbal formulation in preventing isoproterenol induced myocardial infarction in animal model	60 days	KS Rangasamy College of Arts and Science, Tiruchengode	75000.00
Assessment of anti-diabetic potential of partially purified beta -glucan from the mushrooms against STZ induced type I diabetes mellitus in rats	60 days	KS Rangasamy College of Arts and Science, Tiruchengode	80000.00
Development and standardization of polyherbal drug and evaluation of its efficacy for treating obesity associated complications	60 days	KS Rangasamy College of Arts and Science, Tiruchengode	95000.00
			Total Amount(X): 551000.00

Project Title	Duration	Funding Agency	Amount (in Rupees)
Evaluation of therapeutic potential of polyherbal formulation against isoproterenol induced myocardial infraction in rats	60 days	K.S. Rangasamy College of Arts and Sciences, Tiruchengode	74250.00
Anti-diabetic animal model for the plant extract	60 days	PG and Research Centre in Biotech, MGR College, Hosur	68300.00
Evaluation of therapeutic potential of phyto formulation against streptozotocin induced diabetes in rats	90 days	K.S. Rangasamy College of Arts and Sciences, Tiruchengode	85000.00
Hair growth induction studies for the sample in Wistar albino rats	60 days	RVS College of Arts and Science, Sulur	18000.00
Evaluation of Anti obesity efficacy of water extract of Terminalia paniculate in a high fat diet and streptozotocin induced type 2 diabetes in rats	90 days	K.S. Rangasamy College of Arts and Sciences, Tiruchengode	75500.00
FTIR Instrumental Analysis	30 days	Erode Arts and Science College, Erode	12000.00
Anti aging studies for the sample	30 days	RVS College of Arts and Science, Sulur	27500.00
Anti-diabetic activity in animal models	60 days	PG and Research Centre in Biotech, MGR College, Hosur	65000.00
Evaluation of Anti helminthic activity of siddha herbal preparation "meni thailam" using earthworm	14 days	National Institute of Siddha, Chennai	35000.00
Evaluation Anti pyretic activity of test sample	7 days	Paavai College of Pharmacy and Research, Namakkal	37000.00
Evaluation of Anti diabetic, Anti inflammatory and Analgesic activity of test sample	14 days	Nandha Arts and Science College, Erode	89250.00
Evaluation of invivo Antiinflammatory study	14 days	Vellalar College for Women, Erode	36000.00
Animal studies regarding signalling of electro chemical strips in rats	30 days	Nandha College of Arts and Science, Erode	55000.00
Anti microbial test for the sample	7 days	Erode Arts and Science College, Erode	12500.00
			Total Amount(Y): 690300.00

2022-23

Project Title	Duration	Funding Agency	Amount (in Rupees)
Animals studies in Pharmacology and Pharmaceuticus	30 days	Department of Biotechnology, Periyar university, PG extension Centre, Dharmapuri	62000.00
Evaluation of therapeutic potential of polyherbal formulation against experimentally induced diabetes in rats	45 days	KS Rangasamy College of Arts and Science (Autonomous) Tiruchengode	84250.00
Microbiological assay for some selected synthetic compounds against gram positive organisms	30 days	AVS college of Arts and Science, Salem	46000.00
Evaluation of antiobesity potential of phytoformulation made with medicinal plants in hihg fat diet induced obese model rats	45 days	KS Rangasamy College of Arts and Science (Autonomous) Tiruchengode	72500.00
FTIR analysis of Synthetic compounds	30 days	Kongunadu Arts and Science College, Coimatore	8000.00
Development of Polyherbal formulation and evaluation of its therapeutic potential against diabetic nephropathy in streptozotocin nicotinamide induced diabetic rats	45 days	KS Rangasamy College of Arts and Science (Autonomous) Tiruchengode	64000.00
Extraction of prophylactic efficacy of the biochanain A against isoproterenol induced myocardial infarction in rats.	60 days	KS Rangasamy College of Arts and Science (Autonomous) Tiruchengode	48000.00
Pharmacological Evaluation of Spermantogenic, Aphrodisiac, and antioxidant activities of Poonaga Mezhu in animal models	60 days	National Institute of Siddha, Chennai	64250.00
Scientific Validation of ovalution inducing activity estimation of hormonal level and antioxidant activites of ovalution inducing activity	45 days	National Institute of Siddha, Chennai	58500.00
Standardization and pharmacological screening of antispasmodic and antiemetic activity of ganga dravagam in aninal models.	45 days	National Institute of Siddha, Chennai	49500.00
Evaluation of bronchodilator activity of thalaga chenduram	30 days	National Institute of Siddha, Chennai	64000.00
Pharmacological screening of cardioprotective, antiatherosclerotic screeing of sarthuladhi kuligai	60 days	National Institute of Siddha, Chennai	60500.00
IR spectral Analysis for isolated samples	30 days	Sri Shanmuga College of Pharamcy, Sankari, Salem	38000.00
			Total Amount(Z): 719500.00

Cumulative Amount(X + Y + Z) = 1960800.00

5.7.4 Honorary Consultancy from Central/State/Local Government Organizations (5)

Institute Marks : 0.00

NIL

5.7.5 Development activities (5)

Institute Marks : 5.00

Our institution boasts a well-equipped research laboratory, providing students with access to a wide range of instruments. We also serve as a research development center for both students and research scholars. Various formulations were developed and obtained patents. Final year students, as well as PG and Ph.D. scholars, can fully utilize these laboratories and resources. Comprehensive theoretical and practical instruction is provided, along with course materials for all programs. To enhance the learning experience, working models and monographs are displayed throughout the laboratories, museum, and classroom corridors, fostering an engaging and informative environment for our students.

Product Development

During the final project in the curriculum and innovation project the students are under the guidance of faculty encouraged to develop newer synthetic compounds, novel extraction procedures, analytical method development, newer screening methods, etc. Some of novel methods or products are applied for patents.

Table 1: Product Development Details (2024-2025)

S.No	Name of Faculty	Title of Product/Method Developmnet
1	Dr. S. Sengottuvelu	Indole derivative formulation for targeted anticancer activity of chemotherapeutic agents (202024104792)
2	Mrs. S. Sameema Begum	A method for preparation of extract of <i>Tephrosia barberi</i> plant to enhance the hepatoprotective activity (202241064504)
3	Dr. T. Prabha	Integration of QR Code and Braille Language for Enhanced Drug Accessibility and Safety (202441067040)
4	Dr. K. Srinivasan	Method and system for development of forced degradation and stability indicating studies of drugs with defined parameters (202441033742A)

Table 2: Product Development Details (2023-2024)

S.No	Name of Faculty	Title of Product/Method Developmnet
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1	Dr. T. Prabha	Design, synthesis, in-vitro and in-silico screening of novel 1,3,4-oxadiazole derivatives for anti-mycobacterial activity (202341065418)
2		Ion exchange column chromatography apparatus for separation of organic compounds (401061-001)
3	Dr. A. Sumathi	Pharmaceutical Composition of Herbal Nanosuspension For Supportive Management of Dengue With Carica (202341040722 A)
4		Viscometer For Predicting Nanogel Viscosity (6293115)
5	Dr. K. Kamalakannan	Device To Analyse Human Immune System(394195)
6		IOT and AI based cardiovascular disease detection device (394192)
7	Mrs. S. Hemalatha & Mrs. K. Menaka	Smart medicine dispenser with multiple tablet organizer (6327125)

Table 3: Product Development Details (2022-2023)

S.NO	Name of the faculty	Title of Product/Method Developmnet
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1	Dr. S. Sengottuvelu & Dr. S. Haja Sherief	AI and IOT based smart walking stick for visually impaired people (374690)
2	Dr. R. Duraisami & Dr. S. Sengottuvelu	Novel technique of bioflavanoid isolation from natural sources (202241067185)
3	Dr. V. Lalitha & Dr. K. Srinivasan	IOT based wearable medical monitoring device (374963-001)
4	Dr. V. Lalitha	Pharmacological apparatus to determine the learning memory behaviour of rat (202022106523)
5	Dr. M. Jagadeeswaran	Single phase pneumatic agitator for pharmaceutical (374382)
6	Mrs. S. Hemalatha	Present and future role played by AI in supply chain process green cloud computing energy efficiency (202241060641)
7	Dr. A. Sumathi	A polyherbal hair gel for fighting alopecia (202241066659)

Research Laboratories

The Tamilnadu Dr. MGR Medical University, Chennai approved Department of Pharmaceutics as research center for guiding Ph.D

Departemnt of Pharmaceutics

S.No	Approval of Research Center Ref Number	Duration	Date
1	ACI(3)/39012/2021 dated 30-06-2023	Three years	30-06-2023

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY
No.69, ANNA SALAI, GUINDY, CHENNAI - 600 032.

Website : www.tnmgmu.ac.in Ph. : 22353574, 22353576 - 79, 22301760 - 63, 22353094
E-mail : mail@tnmgmu.ac.in Fax : 91-44-22353698

PROCEEDINGS OF THE REGISTRAR
THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY, CHENNAI-600 032.
PRESENT: Dr. M.B.ASWATH NARAYANAN, B.Sc., M.D.S.

Proc.No.ACI(3)/39012/2021 Dated: 30.06.2023

Sub: Academic – The Tamil Nadu Dr. M.G.R. Medical University, Chennai – Department of Pharmaceutics – Nandha College of Pharmacy, Erode – Grant of Continuance of Recognition for conducting research leading to the award of Ph.D programme – under the category of Type-'A' recognition – Orders – Issued

Ref:

- 1 University's Proc.No.ACI(1)/34609/2007, dated 09.01.2008
- 2 University's Proc.No.ACI(2)/34609/2012, dated 18.11.2013
- 3 University's Proc.No.ACI(3)/34609/2012, dated 06.09.2016
- 4 University's Proc.No.ACI(3)/66849/2019, dated 14.07.2020
- 5 Your letter No.Ph.D./Renewal/09/2021, dated 12.11.2021.
- 6 University's letter No.ACI(3)/39012/2021, dated 15.03.2022.
- 7 Inspection report dated 06.05.2022 received from the Inspection Commission.

ORDER:

The Recognition order was issued vide University's Proceedings dated 09.01.2008 to the Chairman, Nandha College of Pharmacy, Erode for the Department of Pharmaceutics for conducting research leading to the award of Ph.D programme for a period of five years. The said recognition was renewed for a period of one year from 18.11.2013 to 17.11.2014 vide in the reference 2nd cited.

2. Subsequently, the recognition has also been renewed for the period of three years from 18.11.2015 to 17.11.2018 and from 18.11.2018 to 17.11.2021 vide in the references 3rd & 4th cited.

3. In the reference 5th cited, the Principal, Nandha College of Pharmacy, Erode has remitted a total sum of INR 76,700/- (Indian Rupees Seventy Six thousand and Seven hundred only) i.e. INR 40,000/- towards inspection fee, INR 25,000/- towards renewal recognition fee and INR 11,700/- as 18% GST on inspection fee and renewal of recognition fee for the Research Department of Pharmaceutics.

4. The Inspection Commission appointed vide reference 6th cited has conducted the inspection in the Department of Pharmaceutics, Nandha College of Pharmacy, Erode on 06.05.2022 and submitted their report on the infrastructural, teaching and other facilities in the Research Department of Pharmaceutics. The Inspection Commission has recommended for the continuance of recognition of the Department of Pharmaceutics. ...2

.2.

5. In the 48th meeting of the Standing Academic Board held on 02.07.2014, it was resolved to authorise the Vice-Chancellor to issue further Continuance of recognition of the Department.

6. In pursuance of the recommendations of the Inspection Commission, the Continuance of Recognition is hereby granted for the period of three years from 18.11.2021 to 17.11.2025 to the Department of Pharmaceutics, Nandha College of Pharmacy, Erode for conducting Ph.D research programme.

7. The Principal, Nandha College of Pharmacy, Erode shall apply to this University six months prior to the expiry of the present recognition order, following the procedures mentioned in the University regulations and by remitting the prescribed inspection fee and Recognition fee for the grant of the Continuance of Recognition of the above said department for the purpose of Ph.D Programme.

8. This order is issued with the concurrence of the appropriate authority.

S. Anandhan
17/7/23
for REGISTRAR

[Signature]
01/07/2023

JG

The Principal,
Nandha College of Pharmacy,
Koorapalayam "Pirivu",
Pitchandampalayam Post,
Erode – 638 052.

Copy to;

1. The Controller of Examinations
2. Academic Section - I(1) seat
3. Stock file
4. Spare

Figure 1: Snapshot of Research Center Approval Letter

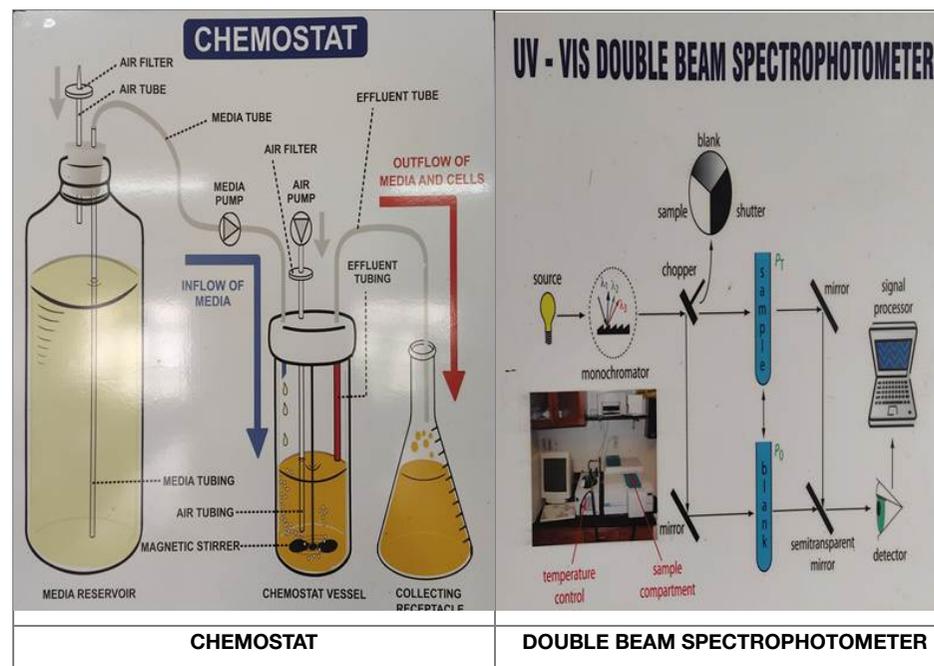
Instructional Material

- The materials prepared by the faculty on their respective subjects are available in the google classroom for student reference.

- The teaching materials such as power point presentations, notes and lecture videos prepared by the faculty are available in google classroom.
- In digital library, the learning links were displayed which allow students to learn indepth and out of syllabus.
- In all laboratories, various charts and working models are made available to studnets which will generate a learning environment.
- Standard operating procedures for apparatus displayed
- Do and don't instructional charts displayed in all laboratories for safety of students.

Working models/Charts/Monograms

- Charts and working models are key tools for visually representing complicated information, which makes it easy to understand.
- Pictorial representations allow for rapid grasping by simplifying data into visually appealing format, aiding in decision making and promoting effective knowledge sharing across diverse students.
- Working models that may improve the reality / methods can deliver collaborating learning experiences, allows to explore and understand complex concepts through observation.
- Overall both charts and working models, play a vital role in data analysis communication, and understanding complex concepts by presenting information in a visually engaging and in an interactive manner.



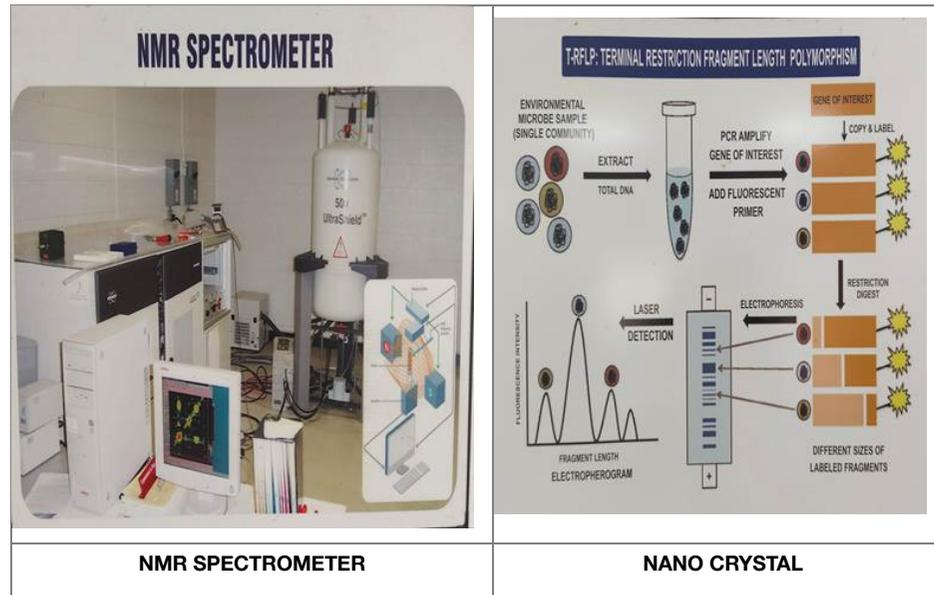


Figure 2: Departemnt of Pharmaceutical Analysis - Charts and Working Models

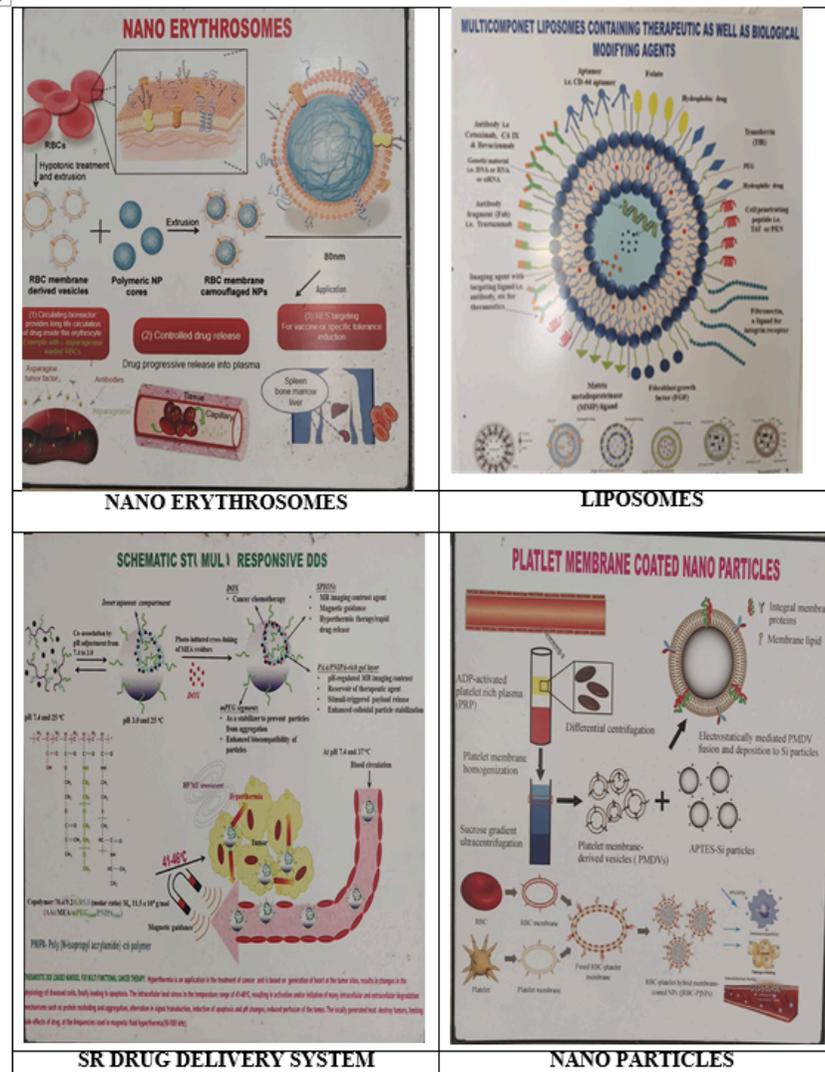


Figure 3: Departemnt of Pharmaceutical Pharmaceutics - Charts and Working Models

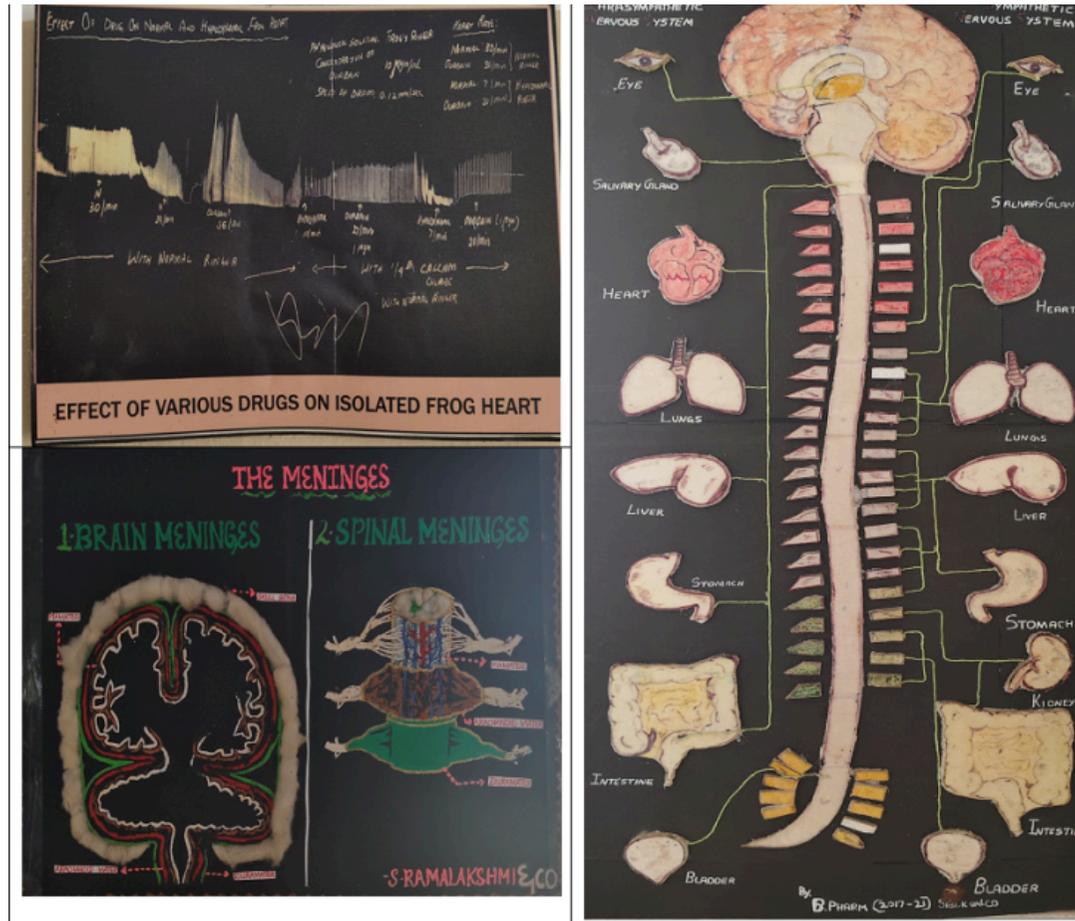


Figure 4: Department of Pharmacology - Charts and Working Models

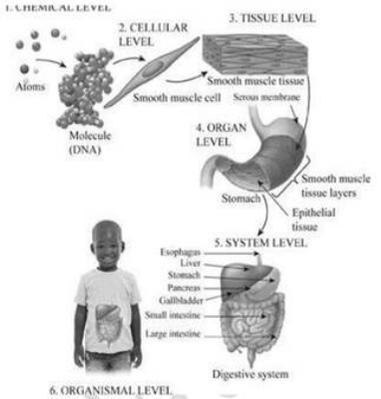
<p style="text-align: center;">B.PHARM FIRST SEMESTER</p> <p style="text-align: center;">HUMAN ANATOMY AND PHYSIOLOGY - I</p>	<p style="text-align: center;">CHAPTER 1</p> <p style="text-align: center;">Introduction to human body</p> <ul style="list-style-type: none"> • ANATOMY: Anatomy is the science of body structures and its internal organs and the relationships among them. • PHYSIOLOGY: Physiology is the science of body functions and how the body parts work. Normal functions of living organisms. <p style="text-align: center;">LEVELS OF STRUCTURAL ORGANIZATION</p> <ol style="list-style-type: none"> 1. Chemical level (atoms and molecules) 2. Cellular level 3. Tissue level 4. Organ level 5. Organ System level 6. Organismal level
 <p>CHEMICAL LEVEL</p> <ul style="list-style-type: none"> • It is the simplest level within the structural hierarchy. • It includes the tiniest building blocks of matter, atoms, which combine 	<p>CELLULAR LEVEL</p> <ul style="list-style-type: none"> • It is made up of the smallest unit of living matter, the cell. • Two or more molecules combine to form cells. • It is the basic structural and functional units of an organism. • Different types of cells are present in body e.g. muscle cells, nerve cells, and epithelial cells. • Individual cells may have some common functions but vary widely in size and shape. • Each type of cells carries out a set of unique functions within the human body. <p>TISSUE LEVEL</p> <ul style="list-style-type: none"> • It is formed by two or more group of cells. • It works together to perform a particular function, similar to the way words are put together to form sentences. • Four basic types of tissue in your body: epithelial tissue, connective tissue, muscular tissue, and nervous tissue. • Each tissue has a characteristic role within the human body. <p>ORGAN LEVEL</p> <ul style="list-style-type: none"> • Two or more different types of tissues are joined or composed together to form an organ.

Figure 5: Lab Manual Printouts

 NANDHA COLLEGE OF PHARMACY ERODE-52.																																					
LABORATORY MANUAL																																					
SEVENTH SEMESTER B.PHARM (September 2024)																																					
INSTRUMENTAL METHODS OF ANALYSIS																																					
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Prepared by Dr.M.Jagadeeswaran, M.Pharm, Ph.D. Professor, Department of Pharmaceutical Analysis, Nandha College of Pharmacy, Erode.																																					
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Exp.No</td> <td>01</td> </tr> <tr> <td>Date</td> <td></td> </tr> </table>	Exp.No	01	Date		<p style="text-align: center;">Scan the solution between 400 nm and 800 nm and record the spectrum against blank.</p> <p>Results:</p> <p>The λ_{max} of potassium permanganate by using spectrophotometer in water was found to _____ nm.</p> <p>Viva Questions:</p> <ol style="list-style-type: none"> 1. What is mean by λ_{max}? 2. Significance of λ_{max}? 																																
Exp.No	01																																				
Date																																					
<p style="text-align: center;">Determination of λ_{max} of Potassium Permanganate using Visible Spectrophotometer</p> <p>Aim:</p> <p>To determine the λ_{max} of potassium permanganate by using visible spectrophotometer.</p> <p>Materials and Instruments used:</p> <p>Potassium permanganate, 100 ml & 10 ml standard flask, Distilled water, Glass cuvette, Shimadzu UV-Vis double beam spectrophotometer (Model - UV 1800)</p> <p>Principle:</p> <p>λ_{max} is a wavelength at which maximum absorption of electromagnetic radiations by a molecule (or) substance present in the solution. λ_{max} is the characteristic property of a substance and it will not change upon change in concentration. It can be used for the identification of the chromophore present in a compound and the amount of drug present in a formulation can be estimated by measuring its absorbance of the solution to its λ_{max}. The λ_{max} can be determined by recording the absorbance value for a particular concentration against wavelength.</p> <p>Potassium permanganate is a coloured substance which absorbs electromagnetic radiation at visible region in the range of 400-800 nm also. The λ_{max} can be determined by recording the absorbance value of particular concentration against wavelength.</p> <p>Procedure:</p> <p>Preparation of stock solution: (1000 $\mu\text{g/ml}$)</p> <p>Weigh accurately about 100 mg of potassium permanganate and transfer to 100 ml volumetric flask. Add 50 ml of distilled water and dissolve the content by gentle shaking. Finally makeup the solution with the same and mix well.</p> <p>Preparation of intermediate stock solution: (100 $\mu\text{g/ml}$)</p> <p>Take a 10 ml volumetric flask and pipette out 1 ml of stock solution (100 $\mu\text{g/ml}$) into the volumetric flask. Makeup the solution with distilled water and mix well.</p> <p>Preparation of working solution: (10 $\mu\text{g/ml}$)</p> <p>Take a 10 ml volumetric flask and pipette out 1 ml of intermediate stock solution (10 $\mu\text{g/ml}$) into the volumetric flask. Makeup the solution with distilled water and mix well.</p>	<p style="text-align: center;">CONTENT</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>NAME OF THE EXPERIMENT</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Determination of λ_{max} of Potassium Permanganate using Visible Spectrophotometer</td> </tr> <tr> <td>2.</td> <td>Determination of effect of pH upon the absorption spectrum of sulphanimide</td> </tr> <tr> <td>3.</td> <td>Estimation of sulphanimide by colorimetry</td> </tr> <tr> <td>4.</td> <td>Colorimetric determination of Aceclofenac using Folin-Ciocalteu Reagent</td> </tr> <tr> <td>5.</td> <td>Assay of Paracetamol Tablets by UV Spectrophotometry</td> </tr> <tr> <td>6.</td> <td>Simultaneous estimation of Ibuprofen and paracetamol by UV spectrometry</td> </tr> <tr> <td>7.</td> <td>Determination of Quinine Sulphate by Fluorimetry</td> </tr> <tr> <td>8.</td> <td>Study of quenching effect by fluorimetry</td> </tr> <tr> <td>9.</td> <td>Determination of Sodium by Flame Photometry</td> </tr> <tr> <td>10.</td> <td>Determination of Potassium by Flame Photometry</td> </tr> <tr> <td>11.</td> <td>Determination of sulphates by Nephelo-turbidimetry</td> </tr> <tr> <td>12.</td> <td>Separation and identification of amino acids by Ascending Paper Chromatography</td> </tr> <tr> <td>13.</td> <td>Separation and identification of amino acids by Circular Paper Chromatography</td> </tr> <tr> <td>14.</td> <td>Separation of sugars by thin layer Chromatography</td> </tr> <tr> <td>15.</td> <td>Separation of plant pigments by column Chromatography</td> </tr> <tr> <td>16.</td> <td>Demonstration experiment on HPLC instrument</td> </tr> <tr> <td>17.</td> <td>Demonstration experiment on FT-IR instrument</td> </tr> </tbody> </table>	S.No.	NAME OF THE EXPERIMENT	1.	Determination of λ_{max} of Potassium Permanganate using Visible Spectrophotometer	2.	Determination of effect of pH upon the absorption spectrum of sulphanimide	3.	Estimation of sulphanimide by colorimetry	4.	Colorimetric determination of Aceclofenac using Folin-Ciocalteu Reagent	5.	Assay of Paracetamol Tablets by UV Spectrophotometry	6.	Simultaneous estimation of Ibuprofen and paracetamol by UV spectrometry	7.	Determination of Quinine Sulphate by Fluorimetry	8.	Study of quenching effect by fluorimetry	9.	Determination of Sodium by Flame Photometry	10.	Determination of Potassium by Flame Photometry	11.	Determination of sulphates by Nephelo-turbidimetry	12.	Separation and identification of amino acids by Ascending Paper Chromatography	13.	Separation and identification of amino acids by Circular Paper Chromatography	14.	Separation of sugars by thin layer Chromatography	15.	Separation of plant pigments by column Chromatography	16.	Demonstration experiment on HPLC instrument	17.	Demonstration experiment on FT-IR instrument
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Figure 6: Student Handouts

5.8
Faculty Performance Appraisal and Development System (FPADS)
(20)

Total Marks 20.00

In today's dynamic educational landscape, faculty members are required to fulfill multifaceted roles beyond traditional instruction. This includes engaging in research, staying current with technological advancements, developing expertise for effective curriculum implementation, and providing valuable services to hospitals, industries, and communities.

Self-Appraisal Format: Faculty members are encouraged to reflect on their performance annually by completing a self-appraisal form that includes various Key Responsibilities Area (KRA)

Key Responsibilities Area of Faculty:

1. **Teaching:** Student credit hours which includes feedback from students, effective instruction materials, mentoring students, use of technology in delivering knowledge and academic results.
2. **Research and Innovation:** Publications of research findings in indexed journals and book chapters. Acquiring grant, generating fund for departmental development through consultancy work and granting patents.
3. **Administrative duties and Service:** Active participation in departmental committee works. Organizing & attending seminars, workshops and conferences. Dynamic role in professional society activities.

Faculty appraisal evaluation system

- Ø Principal circulates the (PE) performance evaluation form to the faculty in the month of December.
- Ø Faculty fill the form and submit the form with appropriate proofs.
- Ø Principal conduct one to one meeting with the faculty to check the form and appropriateness
- Ø Principal along with the management team assess the form and award the points.

Based on the points increment and promotions are done.

SAMPLE TEMPLATE FOR SELF APPRAISAL FORMAT

NANDHA COLLEGE OF PHARMACY, ERODE

Performance Evaluation (PE) Form for Faculty

[Professor/Associate Professor/Assistant Professor]

Name : Emp.ID:

Designation : Dept :

Mobile No. : E mail ID:

KRA	FUNCTIONAL AREA	POINTS	EVALUATION	
Teaching	Student Credit Hours <ul style="list-style-type: none"> o 1 Theory – 5 Points o 1 Practical – 5 Points 	Max 25		
	Student Feedback	5		
	Head of the Institution Feedback	5		
	Valid Instruction Material	5		
	Effective Instruction (supporting documents)	3		
	Mentoring Students (supporting documents)	3		
	Use of Technology(supporting documents)	3		
	Submission of NBA and other Accreditation documents	1		
	Annual Results(supporting documents)	5		
	Total	55		

Research	<p>a. Journal Publications (National – 1 point per paper Max: 5 International – 2 points per Paper) :</p> <p>If Scopus Indexed add : 3 points(< 1 Impact factor) : 4 points(< 2 Impact factor) : 5 points (> 2 Impact factor)</p>	Max.25		
	<p>b. Grant/Consultancy/Patent(Minimum: 5 lakhs) :0-5 Max: 5</p>			
	<p>C. Ph.D. Research Scholar : 10 points if synopsis is completed or : 5 points if course work is completed or : 3 points if registered Max: 10</p>			
	<p>(d) Conference proceedings : 1 point per paper Max :5 (National or International)</p>			
	Total		25	
Service	(a) Committee Work (5 points)	Max.20		
	(b) Programme, Division Administration (5 Points)			
	(c) Attend/organize and manage Seminar/ Workshops/ Conference (0-5)			
	(d) Professional Society activities [other than student clubs] (0-5 points)			
	Total		20	
Grand Total		100		

NANDHA COLLEGE OF PHARMACY, ERODE
Performance Evaluation (PE) Form for Faculty
[Professor/Associate Professor/Assistant Professor]

Name : **Mr. Apollo James** Emp.ID:
 Designation : **Associate Professor** Dept : **Pharmacy Practice**
 Mobile No. : **9894133961** E mail ID: **ajamespharma@gmail.com**

KRA	FUNCTIONAL AREA	POINTS	EVALUATION
Teaching	Student Credit Hours > 1 Theory - 5 Points > 1 Practical - 5 Points	Max 25	
	Student Feedback	5	3
	Head of the Institution Feedback	5	4
	Valid Instruction Material	5	3
	Effective Instruction (supporting documents)	3	2
	Mentoring Students (supporting documents)	3	1
	Use of Technology(supporting documents)	3	1
	Submission of NBA and other Accreditation documents	1	-
	Annual Results(supporting documents)	5	3
	Total		55
Research	(a) Journal Publications (National - 1 point per paper Max: 5 International - 2 points per Paper) : If Scopus Indexed add : 3 points (< 1 Impact factor) : 4 points (< 2 Impact factor) : 5 points (> 2 Impact factor)	Max.25	3
	(b) Grant/Consultancy/Patent(Minimum: 5 lakhs) :0-5 Max: 5	Max.25	3
	(c) Ph.D. Research Scholar : 10 points if synopsis is completed or : 5 points if course work is completed or : 3 points if registered Max: 10		10
	(d) Conference proceedings : 1 point per paper Max :5 (National or International)		-
	Total		25
Service	(a) Committee Work (5 points)		3
	(b) Programme, Division Administration (5 Points)		3
	(c) Attend/organize and manage Seminar/ Workshops/ Conference (0-5)	Max.20	4
	(d) Professional Society activities [other than student clubs] (0-5 points)		1
	Total		20
Grand Total		100	45

Dr. S. Venkatesh *T.M* *[Signature]* *[Signature]*



NANDHA COLLEGE OF PHARMACY

(Approved by Govt. of Tamilnadu, AICTE, New Delhi, Recognized by Pharmacy Council of India, New Delhi, Affiliated to The Tamilnadu Dr.M.G.R. Medical University, Chennai)

Koorapalayam "Pirivu", Pitchandampalayam Post, ERODE - 638 052 Tamilnadu, India

Tel : 04294 - 224611, 221405 Fax : 04294 - 224622

Web : www.nandhaeducation.org E-mail : nandha_pharmacy@yahoo.co.in

Date
 09.01.2024

V.SHANMUGAN, B.Com.,
 CHAIRMAN.

PROCEEDINGS OF THE CHAIRMAN, NANDHA COLLEGE OF PHARMACY, ERODE.

Sub: Establishment - Teaching staff - Promotion as a Professor - Order issued - Reg.

ORDER:

The Chairman, Nandha College of Pharmacy is pleased to promote Dr. APOLLO JAMES, M.Pharm., Ph.D., as a Professor in the Department of Pharmacy Practice with effect from 09.01.2024 based on the performance appraisal and commitment towards the buildout of the department. This is a full time appointment and your duties will be allotted by the principal. This order is subject to approval of the Tamilnadu Dr. M.G.R. Medical University, Chennai.

With Best Wishes,

[Signature]

V.SHANMUGAN,
 CHAIRMAN

CC: Principal,
 Nandha College of Pharmacy.

Figure 1: Snapshot of Filled in Performance Evaluation Form and Promotion Based on Performance Evaluation

Table 1: Details of Adjunct Faculty - CAYm (2024-25)

Name	Specialization	Organization	Details	Hours of Interction
Dr. K.R. Arunkumar	MBBS, MD	AK Medical Consultant, Harur	Human Anatomy and Physiology I Sem B.Pharm	Theory hours (35) Practical hours (20)
Dr. M. Chelladurai	MBBS, MD	Naveen Hospital, Chithode, Erode - 102	Human Anatomy and Physiology II Sem B.Pharm	Theory hours (35) Practical hours (20)

Table 2: Details of Adjunct Faculty - CAYm1 (2023-24)

Name	Specialization	Organization	Details	Hours of Interction
Dr. K.R. Arunkumar	MBBS, MD	AK Medical Consultant, Harur	Human Anatomy and Physiology I Sem B.Pharm	Theory hours (35) Practical hours (20)
Dr. M. Chelladurai	MBBS, MD	Naveen Hospital, Chithode, Erode - 102	Human Anatomy and Physiology II Sem B.Pharm	Theory hours (35) Practical hours (20)

Table 3: Details of Adjunct Faculty - CAYm2 (2022-23)

Name	Specialization	Organization	Details	Hours of Interction
Mr. P. Feroz Khan	M.Sc (Anatomy)	Erode Government Medical College and Hospital, Perundurai	Anatomy II Sem B.Pharm	Theory hours (35) Practical hours (20)

6 FACILITIES (120)**Total Marks 120.00****6.1 Availability of adequate, well-equipped classrooms to meet the curriculum requirements (20)****Total Marks 20.00**

The class room has the following facility:

- Adequate space for students to move around, with proper ventilation and lighting.
- Comfortable seating been arranged with chairs and desks to promote comfortable learning.
- Interactive projectors to enhance multimedia learning experiences
- Microphones, speakers, and other audio-visual equipment are available to support multimedia presentations.
- Regular cleaning, maintenance, and upkeep of classrooms to ensure a healthy and conducive learning environment

Table 1: Deatils of Classroom

S. No	Room type	Carpet area (in sq.m)	Location	Shared/ Exclusive	Rooms Equipped with
1	Classroom 1	150	Block 1 – Third Floor	Exclusive	Screen, Projectors, Desks, Chairs, Blackboard, Wi-Fi, CCTV
2	Classroom 2	105	Block 1 – Third Floor	Exclusive	Screen, Projectors, Desks, Chairs, Black board, Wi-Fi, CCTV
3	Classroom 3	105	Block 1 – Third Floor	Exclusive	Screen, Projectors, Desks, Chairs, Black board, Wi-Fi, CCTV
4	Classroom 4	105	Block 1 – Third Floor	Exclusive	Screen, Projectors, Desks, Chairs, Blackboard, Wi-Fi, CCTV
5	Classroom 5	105	Block 2 – Second Floor	Exclusive	Screen, Projectors, Desks, Chairs, Black board, Wi-Fi, CCTV
6	Classroom 6	132	Block 2 – Second Floor	Exclusive	Screen, Projectors, Desks, Chairs, Blackboard, Wi-Fi, CCTV
7	Classroom 7	132	Block 2 – Third Floor	Exclusive	Screen, Projectors, Desks, Chairs, Black board, Wi-Fi, CCTV
8	Classroom 8	150	Block 2 – Third Floor	Exclusive	Screen, Projectors, Desks, Chairs, Black board, Wi-Fi, CCTV

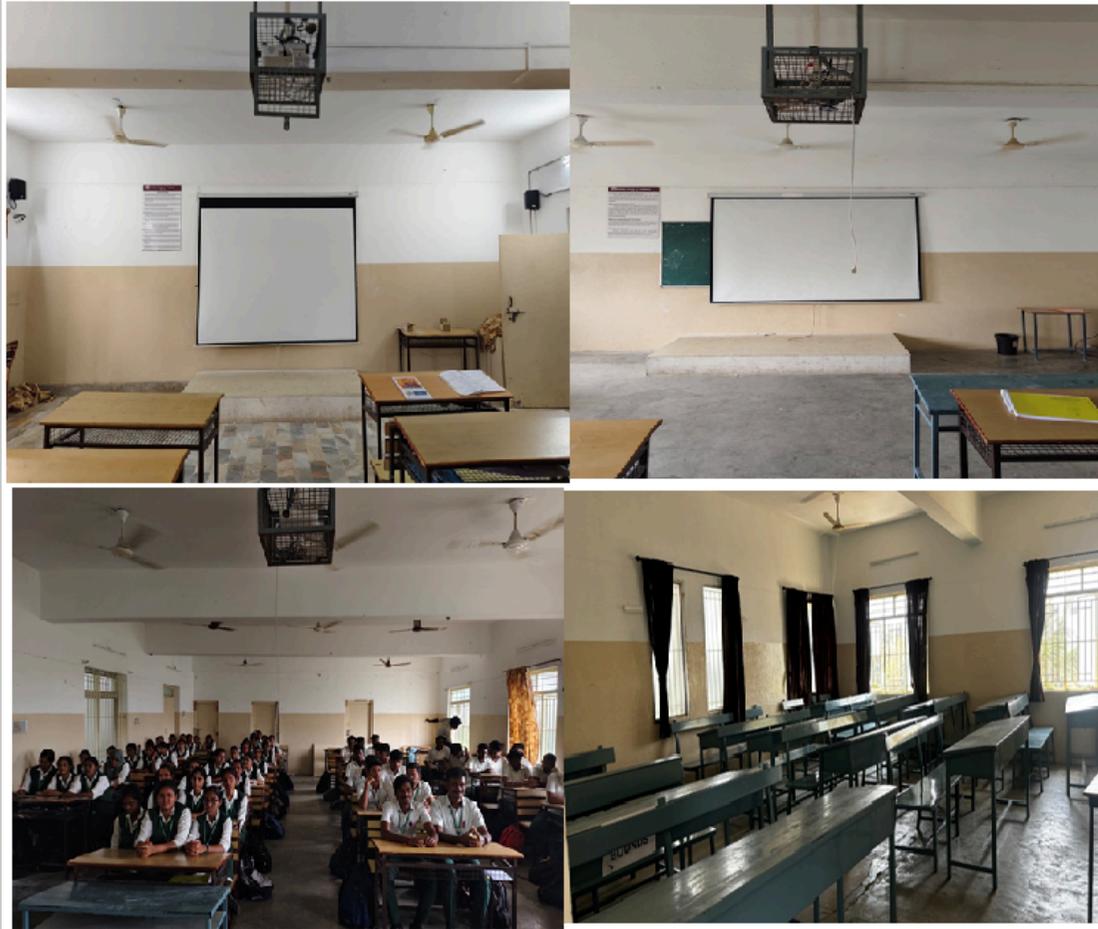


Figure 1: Glimpses of some Classrooms

6.2 Faculty rooms (10)

Total Marks 10.00

Individual workstations or offices for faculty members to work, research, and prepare lectures provided access to computers, laptops, and reliable internet connectivity for research, communication, and online resources. Adequate storage and shelving for faculty members to store books, research materials, and personal belongings

Table 1: Details of Faculty Rooms

S.NO	PARTICULARS	AREA IN SQ.MTS	FLOOR
1	Principal Office	30	Block 1 - Ground Floor
2	Administrative Office	24	Block 1 - Ground Floor
3	Staff Room	40	Block 1 - First Floor
4	Staff Room	40	Block 1 - Third Floor
5	Staff Room	70	Block 2 – Second Floor
6	Staff Room	30	Block 2 – Third Floor
7	Hod Rooms	80 (8 × 10 = 80)	-
8	Lab Assistants/ Lab technician rooms in Their respective labs	8 rooms	-



Figure 1: Principal room



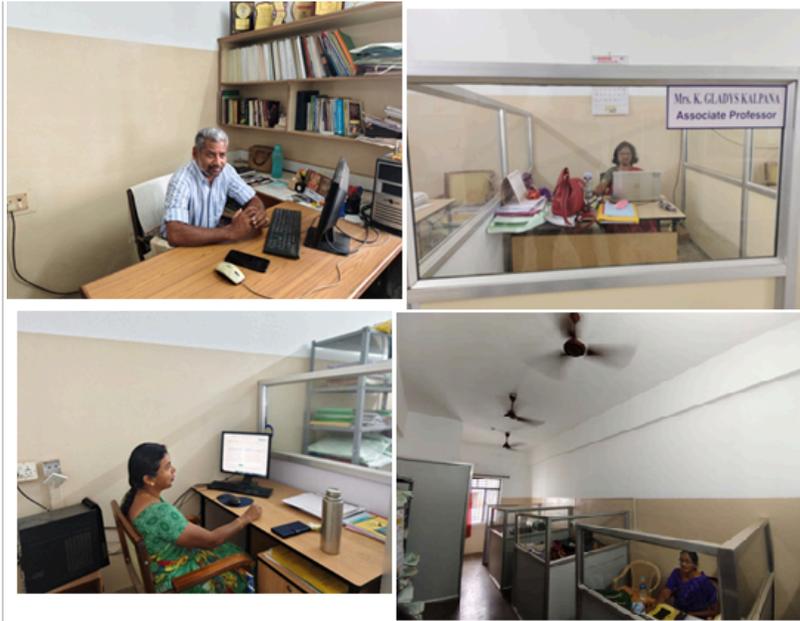


Figure 2: Glimpses of Faculty Rooms

6.3 Laboratories including preparation room (wherever applicable), instrument/machine room and computer labs along with equipment and relevant facilities (60)

Total Marks 60.00



PHARMACEUTICAL CHEMISTRY LAB - II



PHARMACEUTICAL CHEMISTRY LAB III



PHARMACEUTICS LAB I



PHARMACEUTICS LAB II



PHARMACEUTICS LAB III



PHARMACEUTICAL BIOTECHNOLOGY LAB



PHARMACOLOGY LAB I



PHARMACOLOGY LAB II



PHARMACOGNOSY LAB

List of Instruments in Pharmaceutics lab I

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Bottle Capping Machine	-	1	AVAILABLE
2	Densitometer	Dolphin	1	
3	Clarity Tester	Shrefio chemicals	1	
4	Autoclave	KEMI	1	
5	Sieve Shaker	Jayam scientific industries, DL 91	2	
6	Hot Plate	INCO Instruments and chemicals	1	
7	Heating Mantle	Sigma scientific	2	
8	Dispensing Balance	Modern - L/2c	2	
9	Electronic Balance	Shimadzu - ELB 300	1	
10	Bulk Density	-	2	
11	Water Bath	-	1	

List of Instruments in Pharmaceutics lab II

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Steam Distillation	Guna enterprises	1	AVAILABLE
2	Hot Air Oven	NSW India	1	
3	Incubator	NSW India	1	
4	Ointment Crimping Machine	M.C.Dalal& CO	1	
5	Electronic Balance	ATOM	1	
6	Waterbath	-	1	
7	Hardness Tester	-	2	
8	Hotplate	-	1	

List of Instruments in Pharmaceutics lab III

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
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1	UV Spectrophotometer	Shimadzu	1	AVAILABLE
2	High Pressure Homogenizer	OMNI- International	1	
3	Dissolution Apparatus	Electrolab - USP-7D7-067	1	
4	Disintegration Apparatus	INCO Instruments and chemicals	2	
5	Rotary Flash Evaporator	Rotary Flash Evaporator	2	
6	Ampoule Filling & Sealing Machine	Labman- PLMSPUV 1900	1	
7	Ampoule Washing Machine	Dolphin	1	
8	Ultrasonic Cleaner	Equitron	1	
9	Magnetic Stirrer	REMI - 2 MLH	12	
10	Mechanical Stirrer	REM motor- RQ 122	9	
11	Hot Air Oven	Genuine	1	
12	Energy meter	-	1	
13	Desiccator	-	3	
14	Deionizer	-	1	
15	Digital pH Meter	Elico - L1/20	1	
16	Electronic Balance	Shimadzu - EL 300	3	
17	Franz Diffusion Cell	-	10	
18	Compound Microscope	Orbit optix- AS 1-22	25	
19	Analytical Balance	Shimadzu	1	
20	Electronic Balance	Shimadzu	1	
21	WaterBath	-	2	
22	Spray Gun	-	1	

List of Instruments in Pharmaceutics lab IV

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Dissolution Apparatus	Electrolab - USP- 7D7-067	1	AVAILABLE
2	Disintegration Apparatus	-	1	
3	Brookfield Viscometer	Brookfield - LV-DVE	1	
4	Magnetic stirrer	REMI- 1MLH	1	
5	Mechanical stirrer	REMI Motor - RQ 122	1	
6	Clarity Test Apparatus	-	1	
7	Filtration Assembly with Vaccum Pump	-	1	

List of Instruments in Machine Room:

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
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1	Hand Punching Tablet Machine	-	1	AVAILABLE
2	Single Punching Tablet Machine	Cadmach machinerics - csos 15	1	
3	Tablet Punching Machine -16 Stage	BCH elcetric - NAHLEN	1	
4	Tablet coating cum polishing pan	-	1	
5	Coating Pan	M.C Palal&CO , Chennai	2	
6	Tablet Counter	-	4	
7	Hardness Tester	-	5	
8	Friability Apparatus	RICHE-RICH pharma, Bangalore	1	
9	Planetary Mixer	Rimek - KAWEKA-VD M4	1	
10	Ampoule Sealing Machine	-	1	
11	All Purpose Machine	ORCHID Scientific	1	
12	Stability Chamber	Thermolab - Dharmascientific product	1	
13	Capsule Filling Machine	-	2	
14	Ointment Filling & Sealing Machine	-	1	
15	Tincture Press	-	1	
16	Ball Mill	-	1	
17	Double Cone Blender	-	1	
18	Vial Filling and Sealing Machine	-	1	

List of Instruments in Pharmaceutical Chemistry lab I

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Hot Air Oven	Genuine	-	AVAILABLE
2	Digital Melting Point Apparatus	Sigma Instruments	1	
3	Electric Water Bath	Sigma Instruments	1	
4	Hot Plate	Guna Enterprises	1	
5	Magnetic Stirrer	REMI- 2MLH	1	
6	Electronic Weighing Balance	ECB 300 WENSAR and ELB 300 SHIMADZU	2	
7	Heating Mantle		1	

List of Instruments in Pharmaceutical Chemistry lab II

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Hot Air Oven	Genuine	1	AVAILABLE
2	Digital Melting Point Apparatus	Sigma Instruments	1	
3	Electric Water Bath	Sigma Instruments	2	
4	Hot Plate	Guna Enterprises	1	
5	Magnetic Stirrer	REMI- 2MLH	1	
6	Electronic Weighing Balance	ECB 300 WENSAR and ELB 300 SHIMADZU	3	
7	Heating Mantle	-	2	

List of Instruments in Pharmaceutical Chemistry lab III

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Hot Air Oven	Genuine	1	AVAILABLE
2	Digital Melting Point Apparatus	EQ 730 EQUIPTRONICS	2	
3	Electric Water Bath	Sigma Instruments	1	
4	Hot Plate	Guna Enterprises	3	
5	Magnetic Stirrer	REMI- 2MLH	4	
6	Electronic Weighing Balance	ECB 300 WENSAR	2	
7	Muffle Furnace	KMF - 1 KEMI	1	
8	Vacuum Filter	-	2	
9	Vacuum Desiccator	-	2	
10	Microwave	LG IWAVE M.NO: MS2021CW	2	
11	Mechanical Stirrer	RQ-122 REMI MOTOR	4	
12	pH meter	MK II SYSTRONICS	1	
13	Heating Mantle	-	3	

List of Instruments in Pharmaceutical Chemistry lab IV

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Digital Melting Point Apparatus	-	1	AVAILABLE
2	Electric Water Bath	Sigma Instruments	1	
3	Hot Plate	Guna enterprises	1	
4	Electronic Weighing Balance	-	1	
5	Heating Mantle		2	

List of Instruments in Biochemistry lab

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Electronic Weighing Balance	ECB 300 WENSAR	1	AVAILABLE
2	Calorimeter	103	1	
3	Compound Microscope		2	
4	Heating Mantle	-	2	

List of Instruments in Pharmaceutical Analysis lab and Instrumentation room

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
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1	Infrared spectrophotometer	FTIR-8400 S Shimadzu	1	AVAILABLE
2	Fluorimeter	CL 53 Elico	1	
3	Auto analyzer	Microlab 300 Merck	1	
4	Potentiometer	318 Systronics	1	
5	Conductivity meter	304 Systronics	1	
6	Colorimeter	CL 63 Elico	1	
7	HPLC	LC 10A, VP Shimadzu	1	
8	HPLC	LC 20AD Shimadzu	1	
9	UV-Vis Double beam spectrophotometer	SI 164 Elico	1	
10	UV-Vis Double beam spectrophotometer	UV 1800 Shimadzu	1	
11	Digital Balance	ELB 300 & BL 220 H Shimadzu	3	
12	Flame photometer	125 Systronics	1	
13	Nephelo turbidimeter	131 Systronics	1	
14	pH meter	LI 613 Elico	1	
15	Fluorimeter	151 Systronics	1	
16	Colorimeter	103	1	
17	Ultra sonicator	3.5 L 100 PCI	1	
18	UV chamber	-	1	
19	Polarimeter	Advance	1	
20	Karl Fischer titrator	351 Systronics	1	
21	Descending chromatography chamber	Superfit	1	
22	Hot air oven	Universal	1	
23	Ion exchanger	TBD 100 Aquoion	1	
24	Water bath	Genuine	1	
25	Vaccum pump	-	1	

List of Instruments in Pharmacology lab

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
1	Actophotometer	Inco	1	AVAILABLE
2	Analgesiometer	Inco	2	
3	Animal Operating Table	Inco	2	
4	Centrifuge	Remi	2	
5	Cook's Pole Climbing Apparatus	Rolex	1	
6	Despair Test Apparatus	Inco	1	
7	Digital Tele thermometer	Rolex	2	
8	Digital Vernier Calliper	Mitutoyo Corporation	2	
9	Digital Weighing Balance	Zimadzu	1	
10	Euthanasia Chamber	Vishnu Lab Products	1	
11	Electro- convulsiometer	Inco	2	
12	Elevated Plus Maze	Fabricator	1	
13	Haemocytometer	Mediatech	35	
14	Haemometer	Mediatech	36	
15	Hebb's William Maze	Inco	1	
16	Histamine Chamber	Rolex	1	
17	Knee Hammer	Sunshine Pdts	2	
18	Lucas Moist Chamber	Inco	4	
19	Microscopes	Dollar	33	
20	Plethysmograph	Deepika Labs	2	

21	Rabbit Holder	Vishnu Lab Products	2
22	Rat/Mice Restrainer	Vishnu Lab Products	4
23	Rotarod	Inco	2
24	Spirometer	Inco	1
25	Stature Apparatus	Sunshine Pdts	2
26	Student Organ Bath	Icno	30
27	Student Stimulator	Inco	5
28	Kymograph	Inco	27
29	Lab Animal Cages	Vishnu Lab Products	50
30	Sliding Animal Cage Rack	Vishnu Lab Products	4
31	Y Maze	Fabricator	1
32	Radial Arm Maze	Fabricator	1
33	Homogenizer	Inco	1
34	Metabolic Cage	Inco	1
35	Open Field Exploratory Behaviour Test	Fabricator	1
36	Over Head Projector	Liberty	1
37	Weighing Machine	Kurps Company	2

List of Instruments in Pharmacognosy lab

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
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1	Hot Air Oven	Kemi	1	AVAILABLE
2	Muffle Furnace	Kemi kmf i	2	
3	Vacuum Pump	Value ve115 n	1	
4	Hot Plate	Sunbim	1	
5	Photo Flourimeter	Systronics	1	
6	Moisture Balance	Advance m-3a	1	
7	Electronic Weighing Balance	Shimadzu elb 300	2	
8	Compound Microscope	Dollar us 4 80814		
9	Projection Microscope	Besto model 20	1	
10	Clavanger Apparatus	-	1	
11	Soxhlet Apparatus	-	1	
12	TLC Chamber	-	1	
13	Crucible	-	1	
14	Cameralucida	-	1	
15	Stage Micrometer	-		
16	Eyeiece Micrometer	-		

List of Instruments in Pharmaceutical Biotechnology lab

S.NO	INSTRUMENT/ EQUIPMENT	MAKE/MODEL	QUANTITY	STANDARD OPERATING PROCEDURE (SOP'S)
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1	Laminar air flow	Genuine Scientec	1	AVAILABLE
2	Bod incubator	Rotek	1	
3	Incubator	Genuine	1	
4	Autoclave	Newlab equipment	1	
5	Mechanical shaker	Neolab	1	
6	Water bath	Genuine	1	
7	Colony counter	El mo no: 360	1	
8	Centrifuge	REMI	1	
9	Cooling centrifuge	REMI	1	
10	Refridgerator	Panasonic	1	
11	Hot air oven	Genuine	1	
12	Deep freezer	Bluestar	1	
13	Digital balance	Shimadzu	1	
14	Uv illuminator	Biostep UST -15M 8K	1	
15	White illuminator with photostation	Lark	1	
16	Gel electrophoresis	Biotech GENEI	5	
17	Magnetic stirrer	MC Dalal and Co	2	
18	Water bath incubator shaker	KEMI	1	
19	Digital ultrasonic cleaner	Labman	1	
20	Antibiotic zone reader	Dolphin	1	

COMPUTING FACILITIES

S.NO	FACILITY	DETAILS
1	COMPUTERS/LAPTOPS (HP 280 G9 Desktop PC)	40 systems with Intel Core i5 13th Gen Processor / 8 GB DDR4 Memory / 512 GB Solid State Drive / USB Keyboard and Mouse / 21.5" Monitor / Win 11 Home OEM Preloaded / With Onsite Warranty by HP

2	Internet	LAN fiber connection with 200 MBPS Bandwidth
3	LAN facilities	100 MBPS
4	WIFI	Yes
5	Software	Ex-pharma (for pharmacological experiment series)
		LEXICOM/MICROMEDEX (for Drug information, Drug interactions, and IV compatibility)
		AUTO DOCK 2.0 for molecular docking, ChemDraw, CHEMSKETCH, KINGDRAW for drawing chemical structures

Lab Description	BatchSize	Availability of manuals	Quality of Instrument	Safety Measures	Remarks
Computer lab	25	AVAILABLE	WORKING	First Aid Kit, Fire Extinguisher, A/C	Being in good conditions with cleanliness
Machine room	-	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmacognosy lab	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutics lab I	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutics lab II	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutical Microbiology lab	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutics lab III	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutical Biotechnology lab	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmacology Lab I	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutics lab IV	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutical Chemistry Lab III	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmacology Lab II	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutical Analysis lab	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Instrumentation room	-	AVAILABLE	WORKING	First Aid Kit, Fire Extinguisher, A/C	Being in good conditions with cleanliness
Pharmaceutical Chemistry lab II	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness

Pharmaceutical Chemistry lab I	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmaceutical Chemistry lab IV	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Pharmacognosy lab`	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness
Medicinal Biochemistry lab	25	AVAILABLE	WORKING	Fire Extinguisher, First aid kit	Being in good conditions with cleanliness

6.4 Drug Museum (5)**Total Marks 5.00**

A pharmacy colleges drug museum serves as a teaching resource that highlights important turning points in the history and development of medicines, as well as a collection of both current and historical medical items. The museum offers students a unique perspective on the evolution of pharmacy practice through a variety of displays, such as past drug formulations, medicinal plants, and old pharmaceutical equipment. Students academic experience and professional development as future pharmacists are eventually enhanced by their deeper grasp of pharmaceutical history, ethics, and the role of pharmacy in public health as they explore the museums interactive displays and exhibits.

PHARMACOGNOSY MUSEUM

Crude drugs in entire form

1. Nutmeg	
2. Benzoin	13. Fennel Fruit
3. Aloe	14. Hibiscus
4. Cardamom Fruit	15. Linseed
5. Cascara Bark	16. Nuxvomica Seed
6. Cinchona Bark	17. Pyrethmm Flower
7. Cinnamon Bark	18.Cumin
8. Clove	19.Coccobutter
9. Coriander Fruit	20.Katuki
10.Tragacanth	21.Malabarnut
11. Dill	22.Aswagandha
12. Ephedra Stem	23.Podophyllum

Crude drugs in powder form

1. Turmeric	15. Isapgol Seed
2. Ginger	16. Kurchi Bark
3. Coriander	17. Mentha Leaf
4. Ashoka Bark	18. Ipecac
5. Belladonna	19. Potato Starch
6. Capsicum Fruit	20. Senna
7. Liquorice	21. Rauwolfia Root
8. Black pepper	22. Rhubarb Rhizome
9. Clove	23. Hibiscus
10. Colchicum Seed	24. Nuxvomica
11. Datura Leaf	25. Indian jalap
12. Digitalis Leaf	26. Cassia powder
13. Fenugreek	27. Vasaka
14. Hyosymus Leaf	28. Wildchery Bark

Charts

1. T.S of Vasaka leaf	6. T.S of Senna leaflet
2. T.S of Clove flower bud	7. T.S of Rauwolfia root
3. T.S of Nux-Vomica seed	8. T.S of Datura leaf
4. T.S of Senna leaf	9. T.S of Ipecac root
5. T.S of Ephedra stem	10. T.S of Coriander seed
	11. T.S of Fennel seed

PHARMACEUTICS MUSEUM**Display on various types of dosage forms**

TABLETS	Chewable tablets, Dispersible tablets, Prolonged Release tablets, Film coated tablets, Sustained release tablets, Extended-release tablets
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CAPSULES	Hard gelatin capsules, Hard gelatin gastro resistant capsules, Hard gelatin Enteric coated sustained release capsules, soft gelatin capsules, Nutraceuticals.
POWDERS	Bulk powder, Dusting powder, Effervescent powder.
SYRUPS	Anti pyretics, Decongestants, Iron Syrups, Multi vitamin syrups.
SUSPENSIONS	Antacids
EMULSIONS	Laxatives
STERILE PREPARATION	Eye preparations, Ear preparations, Injections, Infusions.
OINTMENTS	Anti-fungal, Burns
GELS	Clindamycin gel, Metronidazole gel and Volatren
LOTIONS	Moisturizing lotions
SUPPOSITORIES	Vaginal preparations
INHALATIONS	Albuterol sulphate inhalation, Salbutamol inhalation
SURGICALDRESSINGS	Cotton, gauze cloth, band aid
SYRINGES OF DIFFERENT SIZES	0.5ml, 1ml, 3ml, 5ml, 10 ml
COSMETICS	Soaps, powders, shampoos, lipstick
SEMI SOLIDS	APC powder, Cold cream, Tooth paste, Carbopol gel, Sulfur ointment
PHARMACEUTICAL WAXES	Paraffin Wax, Emulsifying wax, Bees wax

PHYSIOLOGY MUSEUM

ORGAN MODEL	HUMAN BONES
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1. Human Skeleton	1.Femur	
2. Brain	2.Radius	9.Patella
3. Heart	3.Ulna	10. Hip bone
4. Kidney	4.Fibula	11.Lower jaw
5. Skin	5.Humerus	12.Sacrum
6. Human reproductive organs (Male)	6.Ribs	13.Phalanges
7. Human Respiratory System	7.Scapula	14.Bones of foot
8. Human reproductive organs (Female)	8.Clavicle	15.Mandible





Drug Museum

6.5 Medicinal Plant Garden (5)

Total Marks 5.00

(Area, demarcation, temporary/permanent arrangement, planting of plants under the shade in demarcated areas, adequacy of the plants)

(5)

In a pharmacy college, a medicinal garden is an essential teaching tool that gives students practical experience and a deeper comprehension of medicinal plants. Students can learn about plant identification, cultivation, and pharmacological applications in this garden, which features a varied collection of more than 30 medicinal plants identified with their botanical name, family, and uses. Nandha college of Pharmacy maintaining a well nurtured medicinal garden in an area of about 450 sq.ft. The garden which contains 30 number of plant species. Some of the species are listed below In addition to preparing students for evidence-based pharmacy practice, this experiential learning platform promotes study, conservation, and the sustainable use of medicinal plants by fostering an awareness of pharmacognosy, phytochemistry, and herbal medicine.

LIST OF MEDICINAL PLANTS

S.NO	COMMON NAME	BOTANICAL NAME	FAMILY
1	Adhatoda	Justicia adhatoda	Acanthaceae
2	Shatavari	Asparagus racemosus	Asparagaceae
3	Vetiver	Chrysopogonzanioides	Poaceae
4	Ponnangannikeerai	Alternanthera sessilis	Amaranthaceae
5	Puduthalai	Phyla nodiflora	Verbenaceae
6	Sitharathai	Alpinia officinarum	Zingiberaceae
7	Appakovai	Kedrostisfoetidissima	Cucurbitaceae
8	Insulin plant	Chamaecostuscuspidatus	Costaceae
9	Tulsi	Ocimumtenuiflorum	Lamiaceae
10	Lemon	Citrus limon	Rutaceae
11	Pirandai	Cissus quadrangularis	Vitaceae
12	ManjalKarisalai	Ecliptaprostrata	Asteraceae
13	Indian Liquorice	Glycyrrhiza glabra	Fabaceae
14	Coleus	Coleus amboinicus	Lamiaceae
15	Pudhina/Mentha	Mentha piperita	labiateae
16	Semmaram	Pterocarpus santalinus	Fabaceae
17	Vallarai	centella asiatica	Apiaceae
18	Nannari	Hemidesmus indicus	Apocynaceae
19	Black Night shade leaves	Solanum nigrum	Solanaceae
20	Thoothuvalai	Solanum trilobatum	Solanaceae
21	Amukkara	Withaniasomnifera	Solanaceae
22	Nanjaruppan	Tylophora indica	Asclepiadaceae
23	Katralai	Aloe barbadensis miller	Asclepiadaceae
24	Lemon grass	Cymbopogonflexuosus	Poaceae
25	Nilavembu	Andrographis paniculata	Acanthaceae
26	ThiruneetruPachilai	OcimumBasilicumLamiaceae	Lamiaceae

27	Sarpagandha	Rauvolfia serpentina	Apocynaceae
28	Sirukurinjan	Gymnema Sylvestre	Asclepiadaceae.
29	AaduThinnapaalai	Aristolochiabractea	Aristolochiaceae



Glimpses of Medicinal Garden

6.6 Non Teaching Support (20)

Total Marks 20.00

Name of the Technical Staff	Designation	Date Of Joining	Qualification		Other Technical Skill Gained	Responsibility
			AT joining	Now		
Deepika R	Laboratory Assistant	30/11/2021	B.COM.	M.COM., BLIS	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR	Handling lab experiment, Preparation of solution for conducting experiments, Issuing glasswares, and maintaining Good Laboratory Practices
Pavithra P	Laboratory Technician	20/11/2024	D. Pharm.,	D. Pharm.,	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR, Animal Handling	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
Ilakkiya Vani Sri B	Laboratory Technician	23/10/2024	D. Pharm.,	D. Pharm.,	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR, Animal Handling	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
Geetha R	Laboratory Assistant	20/11/2019	B.COM.	M.COM., BLIS	Computer skill, Fire safety skill, Animal Handling	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
Elamathi S	Laboratory Technician	09/09/2024	D. Pharm.,	D. Pharm.,	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR, Animal Handling	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
Mohanapriya N	Laboratory Assistant	18/08/2021	B.Sc.	B.Sc., B. Ed.	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR, Animal Handling	Maintenance of Lab experiments and apparatus
Visalakshi S	Laboratory Assistant	12/06/2008	B.Sc.	B.Sc.	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR, Animal Handling	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
Barath M	Laboratory Technician	05/09/2024	D. Pharm.,	D. Pharm.,	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR, Animal Handling	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
Sangeetha M	Laboratory Assistant	21/10/2009	B.COM.,	M.COM., BLIS, D T ED	Laboratory Hazard skill, Computer skill, Fire safety skill, Handling Instrumental such as UV, IR	Maintenance of Lab experiments and apparatus
Baby P	Laboratory Assistant	15/02/2008	B.A.	M.A., BLIS, CLIS	Computer skill, Fire safety skill, Handling Instrumental such as UV, IR	Maintenance of Lab experiments and apparatus
Vijaya M	Laboratory Assistant	18/06/2021	D.M.M.	B.M.M.	Laboratory Hazard skill, Computer skill, Fire safety skill, Handling Instrumental such as UV, IR	Maintenance of Lab experiments and apparatus
Deva Dharshini K	Laboratory Technician	10/10/2024	D. Pharm.,	D. Pharm.,	Laboratory Hazard skill, Computer skill, Fire safety skill, Handling Instrumental such as UV, IR	Handling lab experiment, Preparation of solution for conducting experiments, and maintaining Good Laboratory Practices
kalaiselvi C	Laboratory Assistant	02/07/2009	B.sc.	B.sc.	Laboratory Hazard skill, Computer skill, Fire safety skill, Handling Instrumental such as UV, IR	Maintenance of Lab experiments and apparatus

6.6.1 Availability of adequate and qualified technical supporting staff for program specific laboratories (10)

Institute Marks : 10.00

Our college has a total of 13 Technical staff to support the laboratory experiments. Their role in respective designation as follows as:

Laboratory assistants/ Store keeper – maintenance of store registers, providing chemicals, glassware as per needs in preparing required reagents, maintaining equipment's and registers for individual labs and practicals.

Lab Technician- Handling experiments, maintenance of good laboratory practice (GLP).

All the Technical staffs has provided with a knowledge of computer operating skills like operating MS Word, MS excel as the basic requirement in assisting students as well as staff members, skill on fire safety, skill on lab hazards, skill on animal handling, skill on instruments handling, etc.

6.6.2 Incentives, skill upgrade, and professional advancement (10)

Institute Marks : 10.00

The institution offers a change to upgrade the technical skills and professional advancement.

Incentives: An institution provides a chance for non-teaching staffs to attend workshops, short term training, and conferences. Staff who wish to pursue higher studies is allowed to avail study leave.

The Institute offers the followings to the technical staffs:

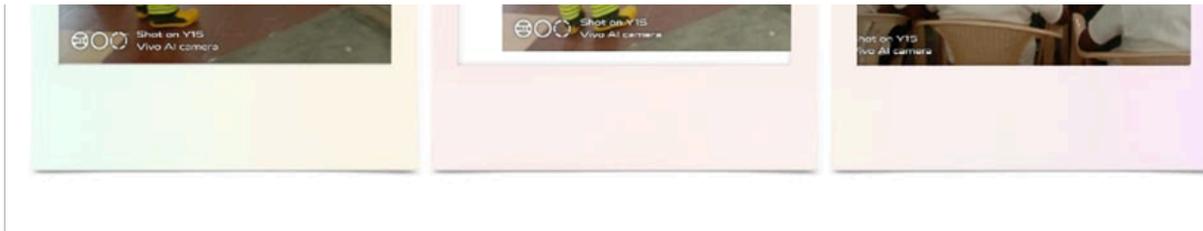
- By funding technical staff to attend the workshops to advance their abilities on various skill developmental program.
- Allowing to pursue professional development course outside the organization letting academics carry ahead with their study.
- The college organizes a training program to teach nonteaching personnel the skills they need.

Date	Title of the program
20.06.2022	Measurement of BP, Blood group testing
25.11.2022	Intellectual property rights and guidelines for patentability
23.02.2023	Handling and usage of dissolution apparatus
20.06.2023	Maintenance of stores
23.02.2024	Animal handling
23.02.2024	HPLC demonstration
27.03.2024	Fire safety awareness program

Technical skill development:

Special technical knowledge was provided in assisting if any hazards happening, fire safety awareness program





7 CONTINUOUS IMPROVEMENT (75)

Total Marks 71.82

7.1 Improvement in Success Index of Students without the backlog (15)

Total Marks 15.00

Institute Marks : 15.00

Items	2020-21 (LYG)	2019-20 (LYGm1)	2018-19 (LYGm2)
Success Index (from 4.2.1)	0.65	0.45	0.47

7.2 Improvement in Placement and Higher Studies (15)

Total Marks 15.00

Institute Marks : 15.00

Items	2020-21 (LYG)	2019-20 (LYGm1)	2018-19 (LYGm2)
Placement Index (from 4.7)	0.93	0.92	0.83

7.3 Improvement in the API of the Final Year Students (10)

Total Marks 6.82

Institute Marks : 6.82

Academic Performance	2020-21 (LYG)	2019-20 (LYGm1)	2018-19 (LYGm2)
Mean of CGPA or mean percentage of all successful students(X)	7.73	7.44	7.69
Total number of successful students(Y)	86.00	87.00	80.00
Total number of students appeared in the examination(Z)	92.00	95.00	96.00
API [$X*(Y/Z)$]:	7.23	6.81	6.41

Average API [(AP1 + AP2 + AP3)/3] : 6.82

Academic Performance = Average API = [(AP1 + AP2 + AP3)/3] : 6.82

7.4 Improvement in the quality of students admitted to the program (15)

Total Marks 15.00

Institute Marks : 15.00

Item		2023-24(CAYm1)	2022-23(CAYm2)	2021-22 (CAYm3)
National Level Entrance Examination -	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others Tamilnadu Private Professional Colleges Association - Health Sciences (TNPPCA-HS)	No of students admitted	42	42	38
	Opening Score/Rank	187	184.5	181.57
	Closing Score/Rank	154	133	128.68
Name of the Entrance Examination for Lateral Entry or lateral entry details Tamilnadu Private Professional Colleges Association - Health Sciences (TNPPCA-HS)	No of students admitted	2	4	2
	Opening Score/Rank	410	322	144
	Closing Score/Rank	205	130	123
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		72.5	70.55	82.14

7.5 Actions taken based on the results of evaluation of each of the POs (20)

Total Marks 20.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
-----	--------------	------------------	--------------

PO 1 : Pharmacy Knowledge

PO 1	2.10	2.61	Target level Attained
------	------	------	-----------------------

Action 1: Projects were given to students in order to improve their subject understanding.

Action 2: Various processes used in pharmaceutical manufacture were taught using charts and models. Guest lectures and workshop organised by inviting industrial professionals.

PO 2 : Planning abilities

PO 2	2.10	2.36	Target level Attained
------	------	------	-----------------------

Action 1: In order to improve their management and leadership skills, students organized and oversaw a variety of extracurricular activities, including sports and cultural events.

PO 3 : Problem Analysis

PO 3	2.10	2.24	Target level Attained
------	------	------	-----------------------

Action 1: The use of a variety of analytical tools inspired students to grasp the fundamentals of pharmaceutical assay for both single and multiple components.

Action 2: Students were urged to use what they had learned to create new, self-designed procedures.

PO 4 : Modern tool usage

PO 4	2.10	2.10	Target level Attained
------	------	------	-----------------------

Action 1: Various software's and computing tools like CADD, ex-Pharma etc. were provided to upgrade the learning skills with latest techniques and their application in pharmacy.

Action 2: Encourage students to explore applications like Medscape, Lexicomp, or Ephorates for drug information, clinical guidelines, and patient management resources.

PO 5 : Leadership skills

PO 5	2.10	2.19	Target level Attained
------	------	------	-----------------------

Action 1: In order to build their management and leadership skills, students were encouraged to take part in and plan a variety of events, including intercollegiate festivals and cultural sports.

PO 6 : Professional identity

PO 6	2.10	2.44	Target level Attained
------	------	------	-----------------------

Action 1: Various events like International Yoga Day, Blood Donation Camp, and Anti-Drug Abuse Day were planned to help students develop their analytical skills while addressing societal challenges.

PO 7 : Pharmaceutical Ethics

PO 7	2.10	1.82	Target level not Attained
------	------	------	---------------------------

Action 1: Students were urged to familiarize themselves with the numerous Indian Pharmaceuticals Acts, legislation, and schedules.

Action 2: The regulatory bodies and agencies that oversee the production and distribution of drugs must be understood.

Action 3: Acquire the capacity to create a system and procedure that satisfies desired requirements while adhering to practical limitations like manufacturing feasibility, safety.

PO 8 : Communication

PO 8	2.10	2.22	Target level Attained
------	------	------	-----------------------

Action 1: Placement activity focus on communication skills which includes group discussion just a minutes talk and interview skill.

PO 9 : The pharmacist and society

PO 9	2.10	2.16	Target level Attained
------	------	------	-----------------------

Action 1: The immunization effort was carried out in collaboration with a local organisation.

Action 2: Delivering lectures or workshops on particular health subjects, such as controlling hypertension, managing diabetes, or maintaining medication adherence.

PO 10 : Environment and Sustainability

PO 10	2.10	1.98	Target level not Attained
<p>Action 1: Students actively inspired and supported each other as they took part in a range of extracurricular activities, including the Swachh Bharat Abhiyan and the Haritha Haram initiative—an impactful tree-planting campaign that fosters environmental stewardship.</p> <p>Action 2: Arranged for a special guest to give a talk about recycling and renewable energy procurement.</p> <p>Action 3: To reduce trash and create dangerous and environmentally friendly products, a rally was organized to raise awareness.</p>			

PO 11 : Life-long Learning

PO 11	2.10	2.29	Target level Attained
<p>Action 1: To improve the attainment level further, students were given with research projects to enhance their interest in constant up-gradation of knowledge.</p> <p>Action 2: To encourage more students to take the GPAT exam, efforts are made to hold coaching sessions.</p>			

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Pharmacy Knowledge			
PO 1	1.80	2.21	Target level Attained
Action 1: Students were given mini-projects to help them better understand the material. Action 2: Models and charts were used to teach various pharmaceutical manufacturing processes.			
PO 2 : Planning abilities			
PO 2	1.80	2.00	Target level Attained
Action 1: Students participated in the planning and administration of a number of extracurricular activities, such as negotiation and critical thinking.			
PO 3 : Problem Analysis			
PO 3	1.80	1.96	Target level Attained
Action 1: Students were encouraged to apply the knowledge learnt in developing new procedures of their own design.			
PO 4 : Modern tool usage			
PO 4	1.80	1.95	Target level Attained
Action 1: Students were given exposure to various modern tools, skill enhancement and made to solve application-oriented exercises. Action 2: Students were required to solve application-oriented exercises, improve their skills, and be exposed to a variety of contemporary tools like CADD, ex-Pharma etc.			
PO 5 : Leadership skills			
PO 5	1.80	1.87	Target level Attained

Action 1: Encouraging collaboration, respecting diverse perspectives, and effectively working with others to accomplish a common goal.

PO 6 : Professional identity

PO 6

1.80

1.82

Target level Attained

Action 1: Students were encouraged to participate in various health check up camps related to detection of blood group, BP, blood sugar etc.

PO 7 : Pharmaceutical Ethics

PO 7

1.80

1.77

Target level not Attained

Action 1: Students were encouraged to actively participate in National Pharmacy week involving in activities related to societal relevance.

Action 2: As students with extensive academic understanding of pharmacy, open ethics, and responsibility, they are encouraged to make contributions to society.

Action 3: Capacity to work professionally and respond ethically both individually and in interdisciplinary teams with a positive outlook.

PO 8 : Communication

PO 8

1.80

1.83

Target level Attained

Action 1: Students were made aware of the importance to develop interview skills.

PO 9 : The pharmacist and society

PO 9

1.80

1.92

Target level Attained

Action 1: To understand elements of pharmaceutical care and provide comprehensive patient care service.

Action 2: Conducting health screenings such as cholesterol testing or blood pressure monitoring at a community centre with pharmacy students.

PO 10 : Environment and Sustainability

PO 10	1.80	1.77	Target level not Attained
<p>Action 1: Students have been inspired to carry out field surveys under Swachh Bharat Abhiyan to study the effect of waste disposal and sanitation issues and its effect of sustainable life.</p> <p>Action 2: Students were motivated and encouraged to engage in various NSS activities and social awareness events.</p> <p>Action 3: Possessing the knowledge and abilities required to practice pharmacy and taking part in the execution of national health programs.</p>			
PO 11 : Life-long Learning			
PO 11	1.80	1.97	Target level Attained
<p>Action 1: Students were assigned small projects and field work to acquire deeper knowledge through experimentation, exploration, field collection, acquiring knowledge of real-world challenges and problems.</p> <p>Action 2: Students were imparted industrial education appropriate to the curriculum.</p>			

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations
PO 1 : Pharmacy Knowledge			
PO 1	1.80	2.78	Target level Attained
Action 1: Students were motivated to attend seminars and workshops related to Pharmacy profession.			
PO 2 : Planning abilities			
PO 2	1.80	2.04	Target level Attained
Action 1: Students were assigned small project on problem-based learning to promote critical thinking, acquire skill and execute planning.			
PO 3 : Problem Analysis			
PO 3	1.80	2.16	Target level Attained
Action 1: Students were assigned field work to understand various issues related to ailments.			
PO 4 : Modern tool usage			
PO 4	1.80	1.99	Target level Attained
Action 1: Development of e-Learning in library. Action 2: Enables pharmacists to provide medication counselling and services remotely via video calls, particularly beneficial for patients in rural areas.			
PO 5 : Leadership skills			
PO 5	1.80	1.76	Target level not Attained

Action 1: Students were motivated to participate in various soft skill training.
 Action 2: Students were inspired to take on volunteer responsibilities and enthusiastically organize events, conferences, and other gatherings.
 Action 3: Students were encouraged to play an active role and lead from the front in various programs such as Pharmacy Week and blood donation camps.

PO 6 : Professional identity

PO 6	1.80	1.83	Target level Attained
------	------	------	-----------------------

Action 1: Students were trained to know the importance of the quality of medicines in public.

PO 7 : Pharmaceutical Ethics

PO 7	1.80	1.72	Target level not Attained
------	------	------	---------------------------

Action 1: Students learned how to solve problems and collaborate in a professional setting concerning social, cultural, ethical, and pharmacy-related rules.
 Action 2: Students were taught the significance of ethical principles and rules, and they were encouraged to apply these to their research projects.
 Action 3: We help students develop social responsibility and a strong understanding of human rights and drug laws.

PO 8 : Communication

PO 8	1.80	1.85	Target level Attained
------	------	------	-----------------------

Action 1: Students have been given wide exposure to various learning modules through broadband/ internet.

PO 9 : The pharmacist and society

PO 9	1.80	1.70	Target level not Attained
------	------	------	---------------------------

Action 1: special coaching was given to students to understand the impact of pharmacy profession on societal issues.
 Action 2: Our students were encouraged to organize health camps, social awareness rallies, and health surveys as part of the NSS initiative. These activities provided them with a deeper understanding of their role in society and their responsibilities. Additionally, on "Pharmacist Day," students received counseling to help them recognize their responsibilities in the healthcare system as pharmacists.

PO 10 : Environment and Sustainability

PO 10	1.80	1.74	Target level not Attained
-------	------	------	---------------------------

Action 1: Students were taught how to manage chemical waste and to make eco-friendly environment through green chemistry.

Action 2: Participate in continuing education programmes of PCI/AICTE to upgrade the knowledge and professional skills

Action 3: Pharmacy students' teams already engage effectively in a wide range of preventative activities, including vaccination, screening for conditions such as hypertension and providing healthy living advice.

PO 11 : Life-long Learning

PO 11	1.80	2.13	Target level Attained
-------	------	------	-----------------------

Action 1: Students were encouraging to undertake online education course to acquire new knowledge related to latest development in the field of pharmaceutical sciences.

Action 2: Students are recommended to enrol in pharmacovigilance refresher courses in order to stay up to date on regulatory developments.

8 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

8.1 Mentoring system to help at individual levels (5)

Total Marks 5.00

The Institution has an adequate system for mentoring the students the name of Proctoring Scheme. It has two components namely Proctor and Proctee. Proctor refers to faculty member (mentor) who takes the responsibility of mentoring the students. Proctee refers to student (mentee). A proctor is allotted to every set of 15 students and he or she acts like an on-campus guide / mentor. Totally 30 proctors are allocated to mentor all UG B.Pharmacy students. The structure of the proctoring scheme is presented below.

Structure of Proctoring Scheme

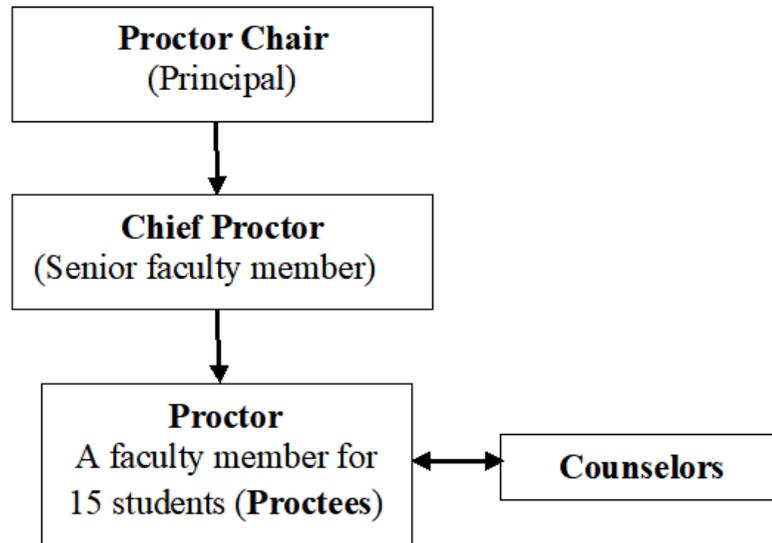


Figure 1:Structure of Proctoring Scheme

- Proctor are allocated during the orientation program of the first year. The proctors for a student remain the same till he / she graduate
- Proctor is responsible for counseling/mentoring the respective group of students. The proctor provides guidance on professional development, career advancement, co-curricular and extra-curricular activities, and also keeps follow up on academics.
- A monitoring register (student's record) is used to enter the activities of Proctees (students) and monitor their progress. The academic progress and all their activities of Proctees are closely monitored and entered in the register.
- The student can easily approach the proctor in case of any academic/non-academic help. Any discrepancies such as disciplinary issues, health issues, sense of insecurity, lack of attendance etc are discussed and counseled with care.
- Proctees need to meet their proctor atleast once before every continuous assessment and one period per week is allotted in the timetable for proctoring.
- Proctors submit the minutes of the meeting to the proctor office which consists of Principal and a senior faculty member as Chief Proctor. The Chief proctor is assigned to monitor the overall functioning of the Proctoring scheme.
- Best Proctor Award' is given to the proctors every year in the annual day celebrations as a token of appreciation.
- A visiting counselor is also available at institution level to counsel the students record by the proctor. Yoga practices also provided to the students.

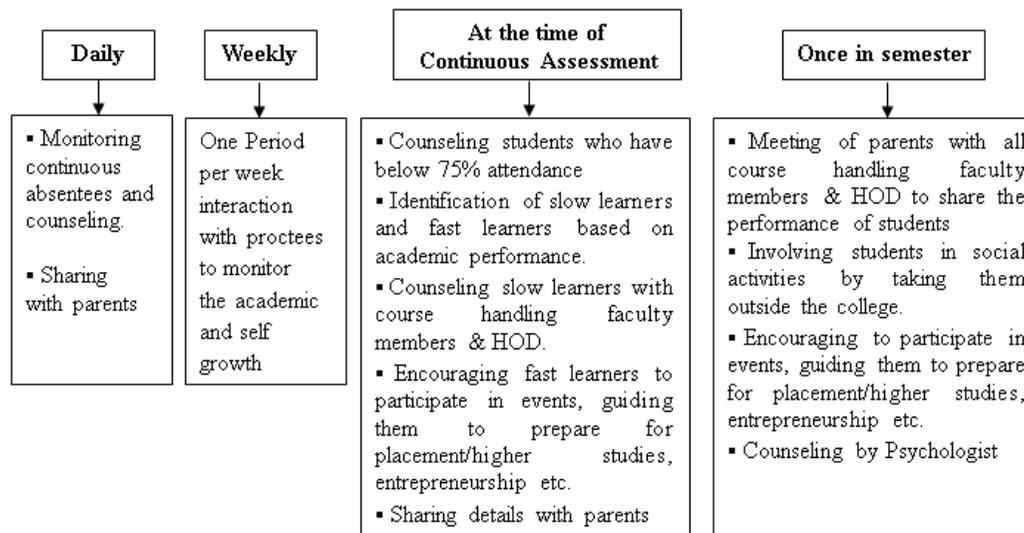


Figure 2: Flowchart of Proctoring process

Profession: In addition to classroom training, the faculties encourage the students to take part in various conferences/workshops/seminars to upgrade themselves and also insist them in presenting posters/publishing papers so that they reach heights in their profession.

Course: Mentors try to clarify their doubts, if required they analyze and direct them in the right way to get their doubts clarified. They guide them to utilize the available library resources of the institution and also to the specific subject in-charge.

Practicals: The students are intensively counseled regarding the significance of a practical experiment. They insist their students in attending all the practical classes without fail. They enquire about the laboratory facilities, how the experiment was carried out, how was the experiment evaluated and try to improve the student's experience in the same.

Co-Curricular and Extra curricular activities:

The mentors encourage the students to participate in various activities like paper presentations, poster presentations in conferences, sports etc.

Competitive Examination: Mentor keeps informing the students about the competitive exams and how to prepare for the exams. They encourage the students to try to attend competitive exam like GPAT.

Academic Performance: Students academic performance in their continuous assessment exams and model exams are monitored. Their academic attendance is also monitored and discussed if they avail leaves.

Personal: The students are counseled regarding their health and personal matters, if required so as to bring a balance.

Higher Studies: Students are counseled and encouraged to go for higher studies for better career opportunities.

Career guidance: Students are informed about the scope of the profession and guided according to their passions and interests. Assure them that our placement cell will pave a way for their career.

Overall development: In addition to academics, cultural, sports and other activities mentees are encouraged and trained to inculcate qualities like leadership, team spirit, decision making, analytical abilities, empathy and social awareness in order to bring them as a complete man/woman.

Efficiency of the mentoring system:

Mentoring system instituted by our college is functioning efficiently as from when it started. Regular monitoring of the students right from their first semester to the eight semesters develop a good rapport with the mentor after several follow ups. This cultures the student as a complete professional as expected. The academic performance of the student like class attendance, paper presentations, projects, paper published, etc. has increased. As the number of mentees allocated to each faculty is 15, the mentors are able to interact with their students on a regular basis. Meeting the young minds, the mentor comes to know about the day to day learner needs and they also get upgraded by this system.

Proctor Booklet:

A record book named as Proctor booklet is used to record all the activities of students including counseling besides student's basic information, student's progression in curricular, co-curricular, extra-curricular, placement status and conduct information. This record is maintained by the proctors and it makes the monitoring process effective.

8.2 Feedback analysis and reward /corrective measures taken, if any (10)

Total Marks 10.00

8.2.1. Feedback collected for all courses: YES**8.2.2. Specify the feedback collection process:**

The feedback collection process consists of following components

- Student's feedback on Teaching Learning and action taken Course
- End Survey feedback about academics
- Students' feedback on Faculty
- End Semester Question Paper feedback
- Stakeholders Feedback
- Program exit survey feedback

8.2.2.1. Student's feedback on Teaching Learning and action taken

The processes for collecting students' feedback to improve the classroom delivery, teaching-learning process and further to address the diverse learners' needs are given below:

- Class committee feedback
- Mid-semester feedback
- Feedback at the end of the course
- Informal feedbacks collected by HOD

Class committee meetings are conducted regularly to monitor the teaching-learning, evaluation process, ensure syllabus completion, collection of feedbacks and solve students based issues in an easiest way.

Feedbacks on teaching learning process during middle of the semester and at the end of every semester are collected from students and accordingly HOD and Principal discuss on it for the betterment of students. Feedback regarding each and every course is collected from the students at the end of every semester and suitable suggestions by students are taken into account and the necessary changes/modifications are accommodated by revising the curriculum.

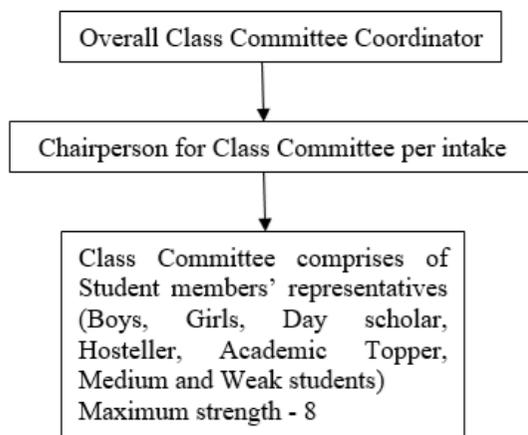


Figure.8.2.2.1.a. Structure of Class Committee

Class Committee meeting:

- Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like "Quality Circle" with the overall goal of improving the teaching-learning process.

- The chairperson of the class committee invites Faculty advisor(s) and the student representatives to the meeting.
- Principal may participate in any class committee of the institution.
- The chairperson prepares the minutes of every meeting, submit the same to Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Management by the Head of the Institution.

Average percentage of students who participate:

- For class committee Process, five students from each year will be instructed to attend the class committee meeting.
- The students selection of each branch will be based on the following criteria;

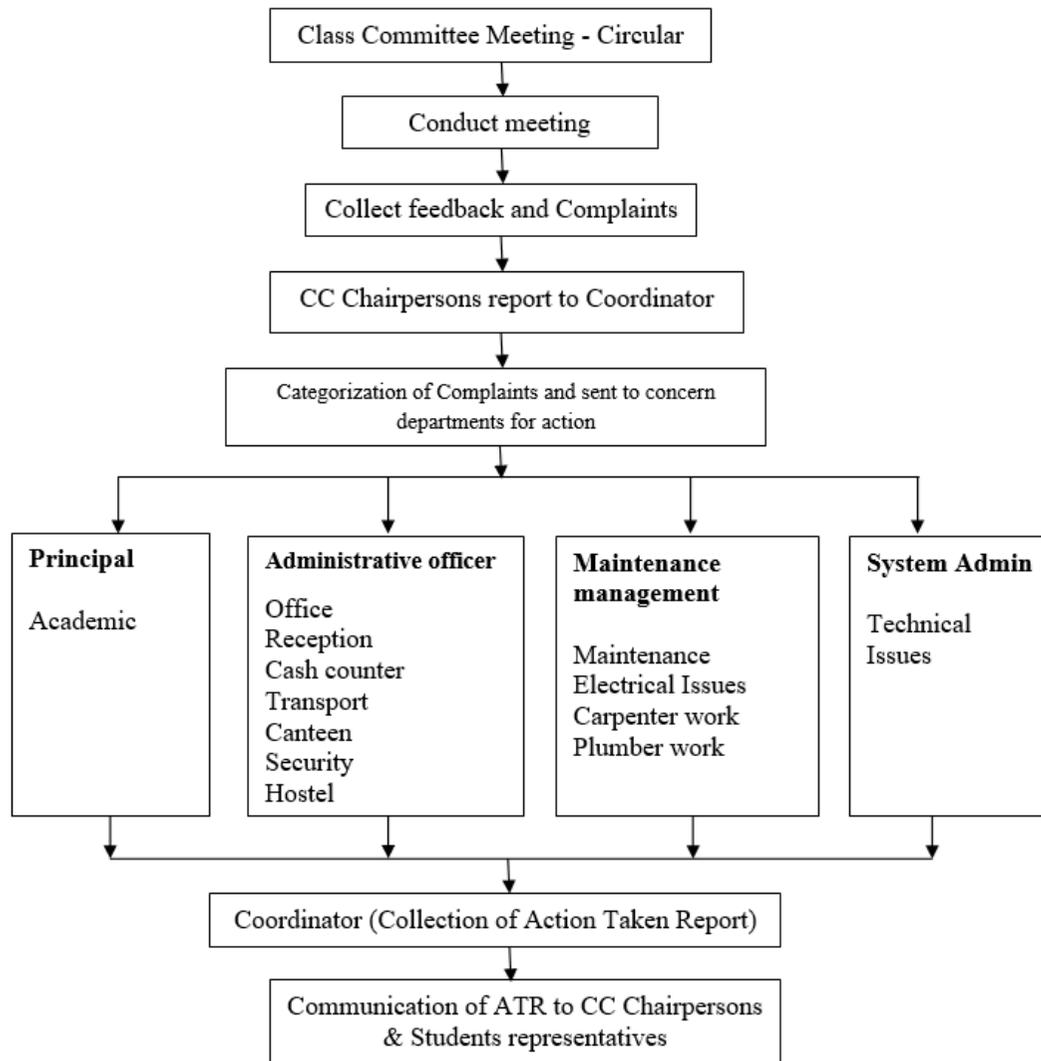
a. A days scholar availing college bus (Boy and Girl)

b. A hosteller

c. A lateral entry

d. An Academic Topper

e. Slow learners

Flowchart – Class committee Meeting**Figure.8.2.2.1.b. Process flowchart for class committee meeting****8.2.2.2. Course End Survey:**

Course End Survey is collected from every student at the end of the semester. The survey is based on the parameters related to the course rated on a three scale basis. The consolidated index value is used in the calculation of indirect attainment for that particular course. The impact of the index value is reflected in overall attainment of the course. If the attainment is not substantial, the following corrective actions are taken to improve the attainment.

- Revision of Syllabus
- Workshops
- Seminars/online courses

- Guest Lectures.

A sample course end survey is presented below.

**NANDHA COLLEGE OF PHARMACY ,
ERODE- 638052**

ranjithranjithr9025@gmail.com [Switch accounts](#)
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Not shared

* Indicates required question

Untitled section

NAME OF THE STUDENT *

RANJITH K

PROGRAMME *

B.Pharm

M.Pharm

Pharm.D

BATCH *

2021-2025

2020-2024

2019-2023

2018-2022

Mobile no.

9360613900

Email I.D

ranjithranjithr9025@gmail.com

Note: Give your feedback on a scale of 3 (3 being the highest) *

Indicate how you will feel this course provide you with an opportunity to learn the following course outcomes:

1. The students will be able to understand the interaction of matter with electromagnetic radiation and its applications in drug analysis

1

2

3

2. The students will be able to understand the different types of analytical techniques and their applications *

1

2

3

3. The students will able to describe the principle of chromatographic separation and analysis of drugs *

1

2

3

4. The students will able to understand the different types of chromatographic separation techniques and application in drug analysis *

1

2

3

5. The students will able to perform the quantitative and qualitative analysis of drugs using various analytical instruments *

1

2

3

Back
Submit
Clear form

Figure.8.2.2.2.a. Sample for course end survey Questionnaire

8.2.2.3. Students feedback on Faculty

The feedback on course handling faculty is collected from every student at the mid of the semester on different parameters as shown in the figure below. The threshold value is fixed as 6 on 10-point scale and the faculty members scoring a total of less than 6 are counseled by the Head of the department and Principal. This helps the faculty to identify the areas of improvement in their teaching pedagogy.

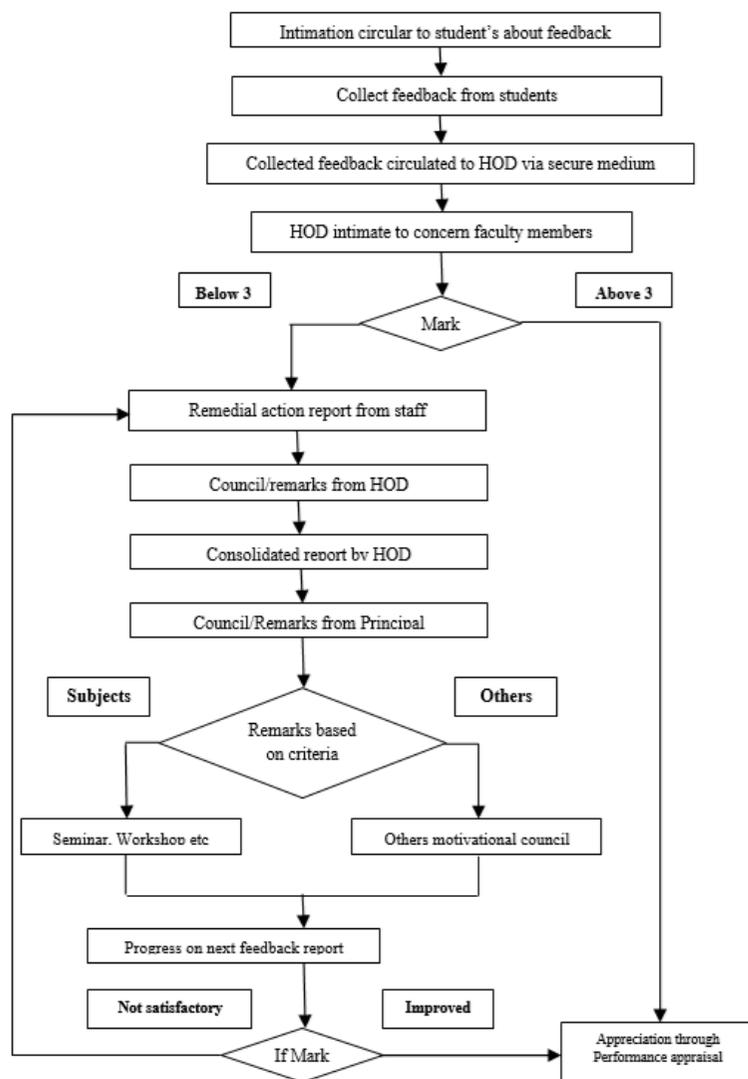


Figure.8.2.2.3.a. Flowchart-Mid semester feedback process

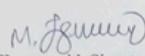
8.2.2.4. End Semester Question Paper feedback

Feedback on end semester question paper is collected from the students to know syllabus coverage, discrepancies and complexity of question paper. A sample feedback form is given below.

NANDHA COLLEGE OF PHARMACY, ERODE-52
(Affiliated to The Tamil Nadu Dr.MGR Medical University, Chennai)
End Semester Question Paper and Expected Analysis Report

Staff Name	: Dr.M.Jagadeeswaran	
Class / semester	: VII semester	
Subject Name	: Instrumental Methods of Analysis	
Subject Code	: 2071	
Question Paper Code	: 562071	
Date of Examination	: 14.11.2024	
No. of students Appeared	: 84	Expected Pass Percentage : 95 %
No. of students expected to Pass	: 80	
No. of students expected to Fail	: 04	
1	Nature of Questions	Below-Average (Easy) Average (Moderate) High (Difficult) Theoretical/Practical
2	If the question paper cover all units	Yes /No
3	Are all units given proper weightage of marks	Yes /No
4	Name the question numbers which are given in Internal assessment exams	NIL
5	Name the question numbers which are given in previous university question papers and end semester examinations question papers	I.1,2, II. 3.,4,5,9. III.1,2,7,10
6	Name of the question numbers which are out of syllabus	NIL
7	Name of the question numbers which are covered in recommended text books	ALL
8	Name of the question numbers which are not covered in recommended text books	NIL

9	In modifications required	Yes / No
10	Report from students (Randomly selected) 1. ABARNA.K (560020504001) 2. DEEPIKA.S M.(560020504011) 3. DHAYANANTH.R.(560020504016) 4. MURUGAN.G.(560020504046) 5. RANJITH.R.(560020504064)	Comments Moderate Average Easy Easy Easy


 Staff name with Signature


 NOD

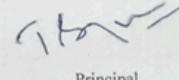

 Principal

Figure.8.2.2.4.a. Question paper feedback form

8.2.2.5. Stakeholders Feedback

Structured feedback for design and review of syllabus is received from students, Teachers, Employers, Alumni.

NANDHA COLLEGE OF PHARMACY

ERODE-638052

ranjithranjithrr9025@gmail.com [Switch accounts](#)

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* Indicates required question

NAME *

RANJITH K

DEGREE * B.pharm M.pharm pharm.D**STUDEN FEEDBACK 20-21**

1) The curriculum and syllabus are well organized and easy to follow *

 Excellent Good Fair poor

2) Is the entire syllabus covered by the faculty? *

 Excellent Good Fair Poor

3) Laboratory exercise improve my ability to understand concepts and helps to relate and apply theory to practice. *

 Excellent Good Fair

6) The Syllabus provide the necessary skill set required by the industry *

 Excellent Good Fair Poor

7) The books prescribed as reference material are relevant, updated and appropriate *

 Excellent Good Fair Poor

8) The elective offered are pertinent to the specification streams and to technology advancements *

 Excellent Good Fair Poor

9) Is the Syllabus career oriented? *

 Excellent Good Fair Poor

10) is the Prerequisite course appropriate? *

 Excellent Good Fair Poor

Submit

Clear form

Figure.8.2.2.5.a.Student feedback form

NANDHA COLLEGE OF PHARMACY,ERODE,638052.

ranjithranjithr9025@gmail.com [Switch accounts](#)

Not shared

NAME

Your answer _____

DEGREE

B.PHARM

M.PHARM

PHARM.D

FACULTY FEEDBACK 20-21

1. Curriculum and syllabus on par with recent trends

Excellent

Good

Fair

Poor

2. Elucidation of course outcomes

Excellent

Good

Fair

Poor

3. Adequacy of Academic tasks in the course plan

Excellent

Good

Fair

Poor

6. Accessibility of Relevant Reading materials and E-Source in the library

Excellent

Good

Fair

Poor

7. Course equilibrium between theory and application

Excellent

Good

Fair

Poor

8. Privilege to propose, modify, suggest and incorporate new topics in the syllabus through proper forum

Excellent

Good

Fair

Poor

9. Flexibility in adopting new techniques / tools/ Strategies in teaching

Excellent

Good

Fair

Poor

10. Scope provided for research activities

Excellent

Good

Fair

Poor

[Submit](#) [Clear form](#)

Figure.8.2.2.5.b.Faculty feedback form

**NANDHA COLLEGE OF PHARMACY ,
ERODE-638052**

ranjithranjithr9025@gmail.com [Switch accounts](#)

Not shared

* Indicates required question

NAME *

Your answer _____

DEGREE *

B.Pharm

M.Pharm

Pharm.D

EMPLOYER FEEDBACK 20-21

1) Satisfaction with the caliber of the graduates *

Excellent

Good

Fair

Poor

2) Satisfaction that graduates are learning the right skills/courses relevant to your organizations requirements *

Excellent

Good

Fair

Poor

3) Satisfaction with the speed at which course content is being adapted to meet the changing industrial needs *

Excellent

Good

6) Quality of employability skills and attributes of our graduates *

Excellent

Good

Fair

Poor

7) The institution produces high quality graduates *

Excellent

Good

Fair

Poor

8) Successful past experience of recruiting from this institution *

Excellent

Good

Fair

Poor

9) Organization and institution collaborate on joint research projects *

Excellent

Good

Fair

Poor

10) Ability to apply professional and / or technical knowledge in the workplace *

Excellent

Good

Fair

Poor

[Submit](#)

[Clear form](#)

Figure.8.2.2.5.c. Employer feedback form

NANDHA COLLEGE OF PHARMACY ERODE-638052

ranjithranjithr9025@gmail.com [Switch accounts](#)

Not shared

* Indicates required question

NAME *

Your answer _____

DEGREE *

- B.Pharm
- M.Pharm
- Pharm.D

Alumini feedback

1. Academic initiatives taken by the college to improve technical or industrial required knowledge is sufficient *

- Excellent
- Good
- Fair
- Poor

2. Co-curricular initiatives taken by the college to improve the students technical/ professional skills *

- Excellent
- Good
- Fair
- Poor

3. Whether the choice based credit systems was in tune with the existing or emergency trends of the industry? *

- Excellent
- Good

5. Was the syllabus prescribed for the programme are well organised and structured? *

- Excellent
- Good
- Fair
- Poor

6. Content of the courses (subjects) offered under my programme was up to date and relevant *

- Excellent
- Good
- Fair
- Poor

7. Project work / Internships offered under my programme was challenging & constructive *

- Excellent
- Good
- Fair
- Poor

8. Open Elective course offered were diverse and resourceful *

- Excellent
- Good
- Fair
- Poor

9. Overall learning environment offered in the campus *

- Excellent
- Good
- Fair
- Poor

Submit

Clear form

Figure.8.2.2.5.d.Alumni feedback form**8.2.2.6. Program exit survey.**

Program exit Survey is collected from every student at the end of the semester. The survey is based on the parameters related to the course rated on a three scale basis. The collected data is used in the calculation of indirect attainment for that particular course.

NANDHA COLLEGE OF PHARMACY, ERODE-638052

STUDENT FEED BACK FORM
PROGRAMME EXIT SURVEY

ranjithranjithr9025@gmail.com [Switch accounts](#)

* Indicates required question

Email *

Record ranjithranjithr9025@gmail.com as the email to be included with my response

NAME OF THE STUDENT

RANJITH.K

PROGRAMME *

- B.Pharm
- M.Pharm
- Pharm.D

BATCH *

- 2021-2025
- 2020-2024
- 2019-2023
- 2018-2022

Mobile No

9360613900

Email.I.D

ranjithranjithr9025@gmail.com

Note *

Correlation levels- 1, 2, and 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

1. To what extent did the program enhance your foundational knowledge in pharmaceutical sciences (e.g., pharmacology, medicinal chemistry, pharmaceuticals)? (P01)

- 1
- 2
- 3

2. How did the program's focus on planning abilities benefit you in your professional life?(P02) *

- 1
- 2
- 3

3. How has the training in problem analysis benefited you in your role as a pharmacy professional? (P03) *

- 1
- 2
- 3

4. How has your knowledge of modern tools impacted your efficiency and effectiveness in the pharmacy profession?(P04) *

- 1
- 2
- 3

5. How have the leadership skills you developed in the program influenced your professional practice? (P05) *

- 1
- 2
- 3

6. How has your understanding of your professional role impacted your approach to pharmacy practice? (P06) *

- 1

- 1
- 2
- 3

7. How has the training in pharmaceutical ethics influenced your approach to professional and social responsibilities? (P07) *

- 1
- 2
- 3

8. How well did the program prepare you to communicate effectively with patients, healthcare professionals, and the public? (P08) *

- 1
- 2
- 3

9. How has the training in assessing societal, health, and legal issues influenced your approach to pharmacy practice? (P09) *

- 1
- 2
- 3

10. How has the program's focus on environmental and sustainability issues influenced your approach to pharmacy practice? (P010) *

- 1
- 2
- 3

11. How has your experience with life-long learning influenced your professional practice since graduating? (P011) *

- 1
- 2
- 3

Submit

Clear form

Figure.8.2.2.6.a. Screenshot of feedback form for program exit survey

8.3 Feedback on facilities (5)

Total Marks 5.00

Feedbacks on the following facilities are collected

- Academics
- Library
- Canteen
- Technical - Computer
- Transport
- Cash Counter
- Office
- Reception
- New Requirements
- Mess
- Carpenter and Electrical Works
- Maintenance work
- Plumbing works
- Security
- Hostel

Class Committee meeting:

Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like “Quality Circle” with the overall goal of improving the teaching-learning process.

The chairperson of the class committee invites Faculty advisor(s) and the student representatives to the meeting.

Principal may participate in any class committee of the institution.

The chairperson prepares the minutes of every meeting, submit the same to Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Management by the Head of the Institution.

Average percentage of students who participate:

For class committee Process, five students from each year will be instructed to attend the class committee meeting.

The students selection of each year will be based on the following criteria;

- a. A days scholar availing college bus (Boy and Girl)
- b. A hosteller
- c. A lateral entry
- d. An Academic Topper
- e. Slow learners

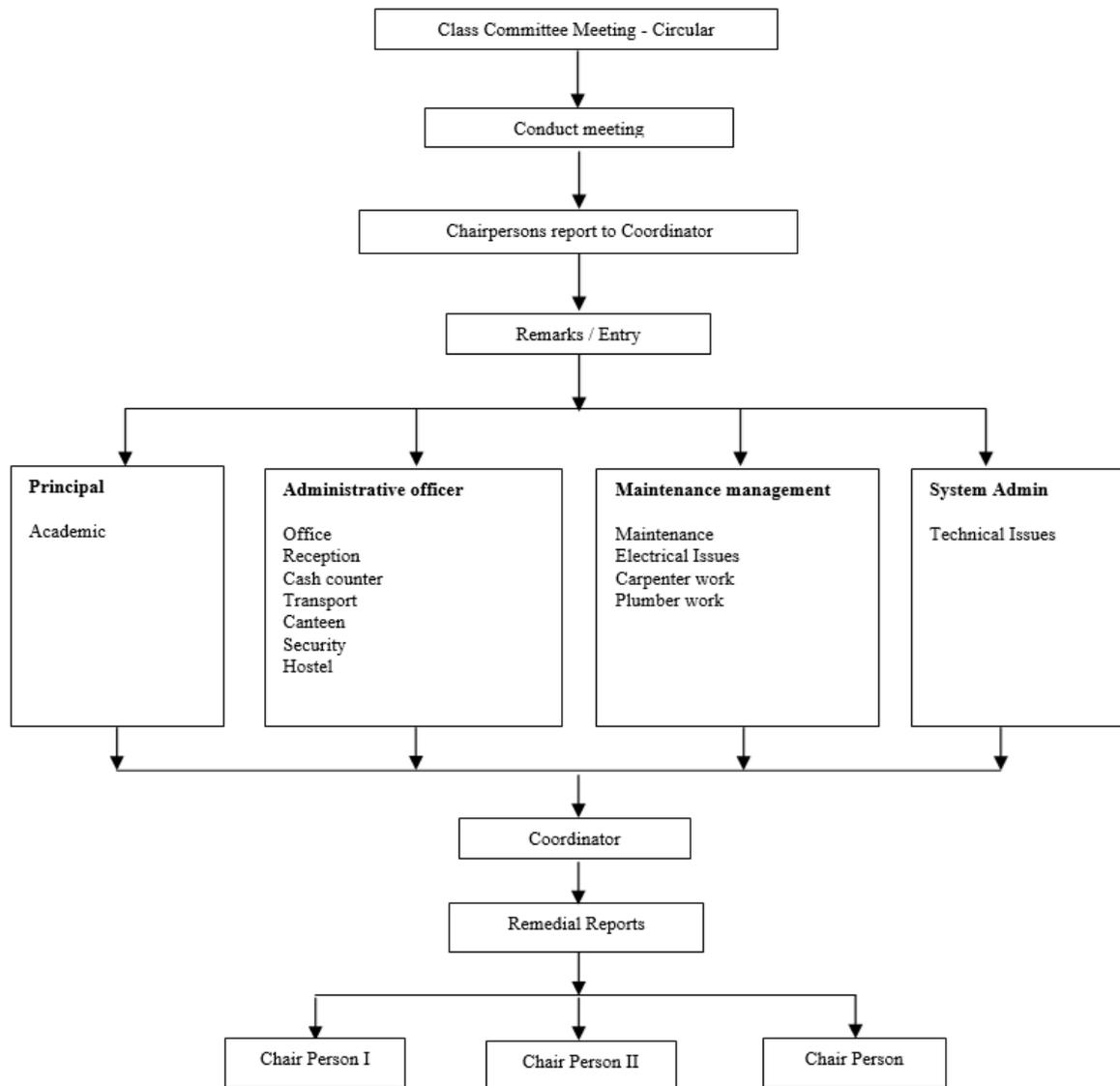


Figure.8.3.a.Flowchart – Class committee meeting

Based on the feedback collection process, corrective actions are taken.

Feedback on facilities are collected from the students at the end of very academic year, by using a feedback questionnaire includes feedback on library, classrooms, laboratories, hostel, cafeteria, extra-curricular activities, Transport for which the ratings are given by the students as follows:

- Poor
- Average
- Good
- Excellent

Based on the response obtained, corrective measures are taken to improve the facilities of the institution.

FEEDBACK

Program :

Year / Semester :

Gender :

Academic Year :

Please rate how satisfied you are with the following aspects

1) LIBRARY

1. Library staff Assistance

Poor Average Good Excellent

2. Books Availability

Poor Average Good Excellent

3. Digital Library Resources

Poor Average Good Excellent

4. Multiple copies of core book

Poor Average Good Excellent

5. Availability and Quality of journals

Poor Average Good Excellent

6. Space for group study

Poor Average Good Excellent

7. Timings for utility

Poor Average Good Excellent



2) CLASSROOMS & LABORATORIES

1. Size of Classrooms

Poor Average Good Excellent

2. Furniture (Desks & Chairs)

Poor Average Good Excellent

3. Cleanliness & Maintenance

Poor Average Good Excellent

4. Ventilation & Lightings

Poor Average Good Excellent

5. Visual & Audio Equipment (Smart class room)

Poor Average Good Excellent

6. Availability of Lab Equipment and chemicals

Poor Average Good Excellent

7. Working Conditions of Instruments

Poor Average Good Excellent

8. Lab Space and Layout

Poor Average Good Excellent

9. Support from Lab Staff

Poor Average Good Excellent

10. Safety Measurements in the Laboratory

Poor Average Good Excellent

3) HOSTEL & CAFETERIA

1. Room Cleanliness

Poor Average Good Excellent

2. Quality of Furniture (Bed, Desk & Chair)

Poor Average Good Excellent

3. Ventilation & Lighting

Poor Average Good Excellent

4. Internet / WI-FI Connection

Poor Average Good Excellent

5. Food Quality

Poor Average Good Excellent

6. Security Measures (CCTV, Guards)

Poor Average Good Excellent

7. Bathroom cleanliness and maintenance

Poor Average Good Excellent

8. Hostel Maintenance Services

Poor Average Good Excellent

9. Space for Dining

Poor Average Good Excellent

10. Cleanliness & Maintenance of Dining Area

Poor Average Good Excellent

11. Entertainment (Spots, Newspaper and Television)

Poor Average Good Excellent

12. Quality of snacks

Poor Average Good Excellent

13. Atmosphere of the cafeteria

Poor Average Good Excellent

4) SPORTS & EXTRA CURRICULAR ACTIVITIES

1. Availability of sports equipment
 Poor Average Good Excellent
2. Maintenance of the equipment
 Poor Average Good Excellent
3. Variety of Activities Offered
 Poor Average Good Excellent
4. Quality of Organization
 Poor Average Good Excellent
5. Support from the Staff
 Poor Average Good Excellent
6. Scheduling & Time management
 Poor Average Good Excellent
7. Availability of first aid kit
 Poor Average Good Excellent

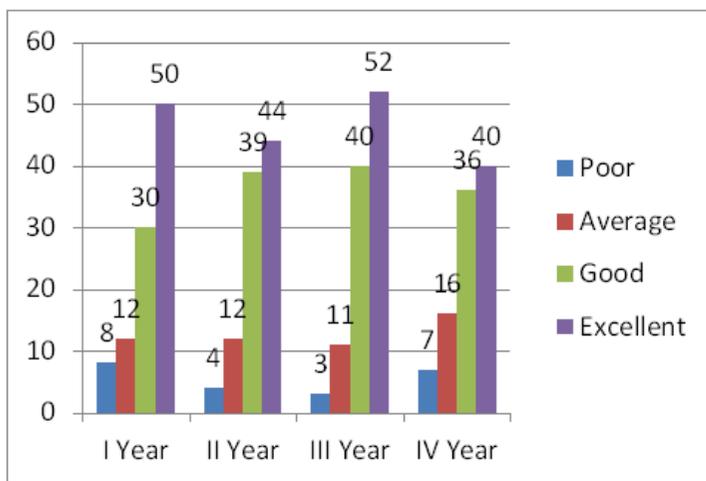
5) TRANSPORT

1. Bus timings
 Poor Average Good Excellent
2. Route availability
 Poor Average Good Excellent
3. Vehicle condition
 Poor Average Good Excellent
4. Driver behavior
 Poor Average Good Excellent
5. Safety measures and cleanliness
 Poor Average Good Excellent

FEEDBACK ANALYSIS

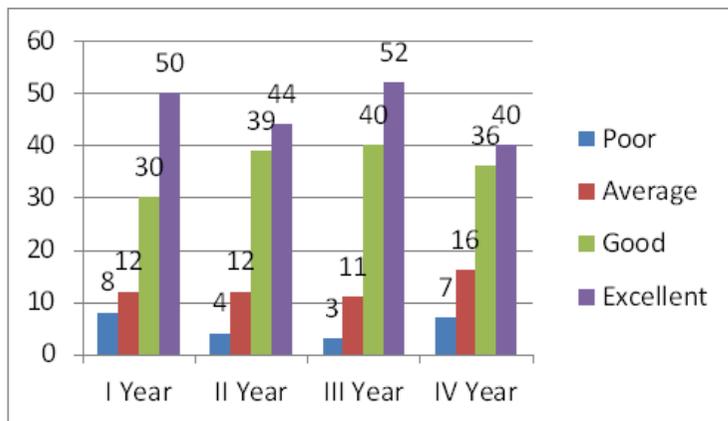
I. Feedback on library

2023-2024



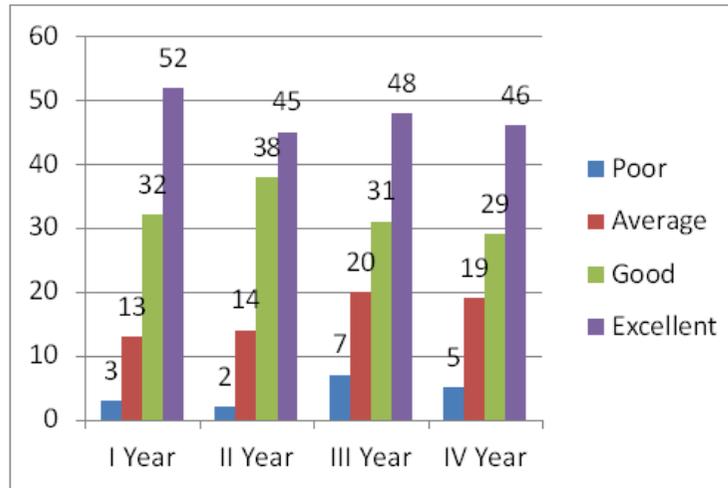
II. Classrooms & Laboratories

2023-2024



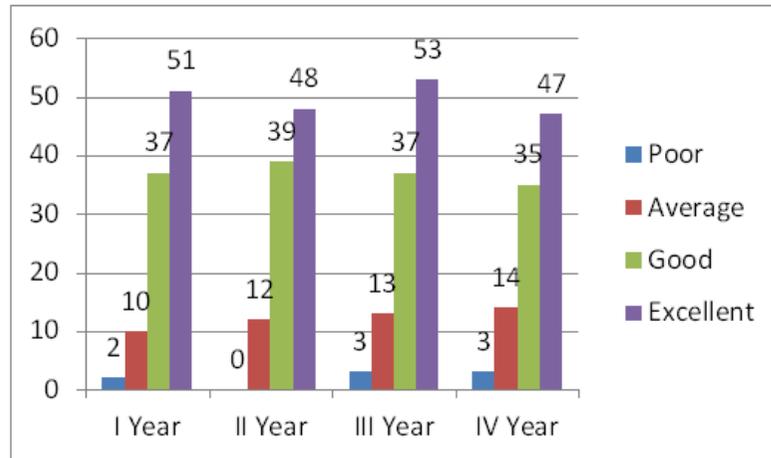
III. Hostel & Cafeteria

2023-2024



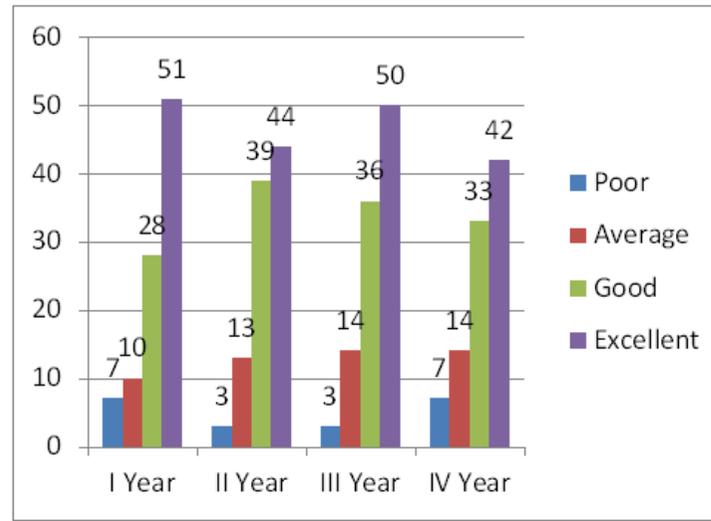
IV. Sports & Extra Curricular Activities

2023-2024



V. Transport

2023-2024



8.4 Self Learning (5)

Total Marks 5.00

The academic performance of the student is enhanced through self-learning and learning beyond syllabus. The institute encourages the students to learn additional courses through NPTEL. The institution helps the students in selecting their elective based on their wish. The advanced learners are selected to do the elective through self study mode.

The self study facilities include

1. Digital library service with e-book and online journals
2. High speed internet facility for NPTEL online course
3. Digital videos, Webinars

Self learning facilities in the college:

Computer Lab: Computer Lab with internet facility is provided for students.

Multimedia Classrooms: The students can give an oral presentation with the help of audiovisual aids.

Library: We are maintaining sufficient number of textbooks and reference books in our library.

Digital Library: The Library is maintained with all kinds of e-journals and reference books which students can access.

Laboratory facilities: Laboratory facilities are made available beyond working hours for doing projects.

Student Club: Student Club encourages the students for the innovative ideas and organization and leadership skill. The club acts as a self learning environment of organizational and managerial skill.

Online Courses: The Students are motivated to enroll for NPTEL courses and acquire knowledge pertaining to the domain.

Table.8.4.1. NPTEL Course details

Academic year	NPTEL course registered	NPTEL course completed
2024-25	18	7
2023-24	4	4
2022-23	2	2
2021-22	2	2

Table. 8.4.2. Details of NPTEL courses registered

S.No	Student Name	Title of the course	Date
1	Dhivyabharathi	Basic course in biomedical research	December 22, 2024
2	Mahamuni.P	Basic course in biomedical research	December 22, 2024
3	Navven.J	Basic course in biomedical research	December 22, 2024
4	Monika.K	Basic course in biomedical research	December 22, 2024
5	Antony Maria Thomas.S	Basic course in biomedical research	December 22, 2024

6	R.B.Bharath Raj	Basic course in biomedical research	December 22, 2024
7	Harshawarthan.S	Basic course in biomedical research	December 22, 2024
8	Sutharsana Shree.K.T	Basic course in biomedical research	December 22, 2024
9	Raghavendari.M	Basic course in biomedical research	December 22, 2024
10	Joel Joseph.P	Basic course in biomedical research	December 22, 2024
11	Subija.S	Basic course in biomedical research	December 22, 2024
12	Shahana.G	Basic course in biomedical research	December 22, 2024
13	Rahul.T	Basic course in biomedical research	December 22, 2024
14	Dinesh.M	Basic course in biomedical research	December 22, 2024
15	Gopika Vani.G	Basic course in biomedical research	December 22, 2024
16	Jesika.X	Basic course in biomedical research	December 22, 2024
17	Balasundaresan.G	Basic course in biomedical research	December 22, 2024
18	Ranjith.K	Basic course in biomedical research	December 22, 2024
19	Mohamed Nowfal.A	Health research fundamentals	Jan-Mar 2023 (8 weeks)
20	Thenarasan.D	Health research fundamentals	Jan-Mar 2023 (8 weeks)
21	Mohamed Nowfal.A	Basic course in biomedical research	December 3, 2023
22	Thenarasan.D	Basic course in biomedical research	December 3, 2023
23	Lathamani.L	Computer aided drug design	Jul-Sep 2022 (8 weeks)
24	Lathamani.L	Bioinformatics: Algorithms and applications	Jan-Apr 2022 (12 weeks)

Table. 8.4.2. Details of NPTEL courses completed

S.No	Student Name	Title of the course	Date
1	Shahana.G	Basic course in biomedical research	December 22, 2024
2.	Rahul.T	Basic course in biomedical research	December 22, 2024
3	Dinesh.M	Basic course in biomedical research	December 22, 2024
4	Gopika Vani.G	Basic course in biomedical research	December 22, 2024
5	Jesika.X	Basic course in biomedical research	December 22, 2024
6	Balasundaresan.G	Basic course in biomedical research	December 22, 2024
7	Ranjith.K	Basic course in biomedical research	December 22, 2024

8	Mohamed Nowfal.A	Health research fundamentals	Jan-Mar 2023 (8 weeks)
9	Thenarasan.D	Health research fundamentals	Jan-Mar 2023 (8 weeks)
10	Mohamed Nowfal.A	Basic course in biomedical research	December 3, 2023
11	Thenarasan.D	Basic course in biomedical research	December 3, 2023
12	Lathamani.L	Computer aided drug design	Jul-Sep 2022 (8 weeks)
13	Lathamani.L	Bioinformatics: Algorithms and applications	Jan-Apr 2022 (12 weeks)

Table 8.4.3. Facilities available for providing enhanced Teaching – Learning Process

S.No	Facility	Item Description
1	Library	Journals General books Motivational books Magazines
2	e-learning resources	e-journal e-books Compact disc English Language Software
3	Internet Free	Free Wi-Fi
4	Auditorium	Audiovisual equipment available for any Presentations
5	Seminar, workshop, Hands on training	Seminar program is conducted by various departments through industrial experts and academicians. Frequently conducting the hands on training programs for handling the analytical equipments, animals, the tablet punching instruments,,etc..

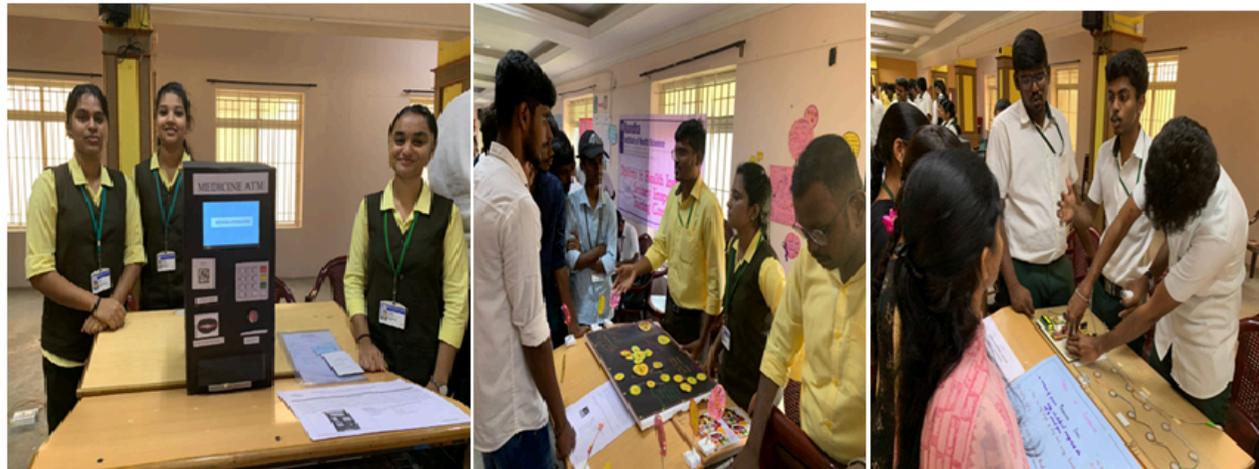
Table 8.4.3. Library book details

S.No	Contents	No.s
1	Volumes	9789
2	Titles	4231
3	Journal Subscription	46

4	International Journals	20
5	Indian Journals	26
6	E-Journal Subscription	389
7	BENTHAM E-Journals	37
8	No.of Books CD	128
9	No.of Newsletters	215

8.4.4. Centre for innovation and project expo

The students are encouraged to select a topic in the emerging area and do self study and research on the topic. The students are asked to prepare Poster, Model Project on the topic and present the same to the public. The exhibition is conducted every year. The aim of the exhibition is to motive the self learning and improve the knowledge in the emerging area.



8.4.4.b. Innovation and Project expo



8.4.4.c. Innovation and Project expo

8.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Career Guidance cell caters the need for all the students in providing the orientation programmes and training in the following areas:

1. Training and Placement
2. Internship
3. GPAT Exam Orientation
4. Higher studies abroad
5. Government and other competitive exams

Orientation and training programs are arranged for the willing students and necessary support is provided by the subject experts available from industries and internal faculty members. Coaching classes are arranged to enable the students to get ideas and prepare themselves to pursue their higher studies in India and Foreign countries.

8.5.1. Training and Placement

Placement Department:

Placement coordinator : Dr.M.Jagadeeswaran

Professor, Dept. of Pharmaceutical Analysis

Placement Trainer : Dr.T.Prabha, HOD, Dept. of Pharmaceutical Analysis

:Dr. S.Haja Sherief, HOD, Dept. of Pharmacy Practice

Pre-Placement training:

Company accesses the students in verbal, aptitude, reasoning, spoken, written English and technical skills. Hence a schedule is planned in such a way the skills are imparted from the first year of the program. The first year communication skill and verbal skills are focused more. In second year aptitude skills and technical skills are focused. In the third year group discussion, resume writing, previous company question papers are solved and mock interviews are conducted.

Table.8.5.1.1. Pre-placement activities

First Year	
Day	
1	Verbal
2	Communication
3	Parts of Speech
Second Year	
1	Aptitude skill <ul style="list-style-type: none"> ◦ Being able to solve problems and make decisions based on evidence ◦ Being able to connect with patients and other professionals
2	Technical skill <ul style="list-style-type: none"> ◦ To understand the fundamental chemistry and structure activity relationship ◦ To identify the phyto constituents present in various medicinal plants
3	Tenses
4	Subject verb Agreement
Third Year	

1	Reading Comprehension, Data Interpretation
2	Group discussion
3	Cover letter writing
4	Presentation skills <ul style="list-style-type: none"> ◦ Incorporating the student into patient care activities ◦ Patient counseling and interviewing the patients
5	Technical skill <ul style="list-style-type: none"> ◦ To demonstrate the pharmacological experiments by expharm software ◦ To understand the knowledge about different pharmaceutical dosage forms and its action
Final Year	
1	Body Language & Personality development
2	Leadership skills <ul style="list-style-type: none"> ◦ To create a harmonious team environment through the social insight and service orientation
3	Interview skills <ul style="list-style-type: none"> ◦ The students are advised to improve the attitude for attending interview, Do's and Don'ts should be followed during the interview
4	Technical skill <ul style="list-style-type: none"> ◦ Training given to handle pharmaceutical equipments with accuracy and precision ◦ Guidance given to keep track of inventory and patient profiles



Figure.8.5.1.a.Communicative skill development program**Functions of Training and Placement Cell**

1. To propagate information on different job and career related advertisements obtained from newspapers, internet and contact sources
2. To organize career guidance, workshops, seminars, presentations on emerging professional trends
3. To organize campus interview for better recruitment process
4. To help students in identifying their strengths/weakness to plan their career

Table 8.5.1.2. List of Major Recruiters of B.Pharm. Graduates

Academic Year	Name of Major Recruiting Companies
2023-24	Caplin steriles, Chennai
	Viartis, Bangalore
	Global calcium Pvt Ltd, Hosur
	Corro Health, Chennai
	Medrich, Bangalore
	Vee HealthTek, Chennai
	Optum, Coimbatore
	Omega Healthcare, Chennai
	Cliantha Research, Ahamedabad
	ICON life sciences,Secunderabad
	Sai Mirrainno pharm Pvt. Ltd, Chennai
2022-2023	Apollo Hospitals Enterprises Ltd, Chennai
	Elies Biotech Pvt. Ltd, Erode
	Kausikh Therapeutics Pvt. Ltd, Chennai
	MMC Healthcare Ltd, Chennai
	Jawa health care, Salem
	Sai Mirrainno pharm Pvt. Ltd, Chennai
	Mylan Laboratories Ltd, Bangalore
	Pharma galaxy, Salem

2021-22	Cognizant Technology Solutions Pvt. Ltd, Chennai
	Adcock ingram Ltd, Bangalore
	Elies Biotech Pvt. Ltd, Erode
	Kausikh Therapeutics Pvt. Ltd, Chennai
	IQVIA, Cochi
	Pharma galaxy, Salem
	MMC Healthcare Ltd
	Apollo Hospitals, Chennai
	MiramedAjuba, Chennai
	Jawa health care, Salem
	Pharma leaf india Pvt Ltd, Bangalore
	Sai Mirrainno pharm Pvt. Ltd, Chennai
	Unilink Pharma Pvt.Ltd, Chennai
	Mylan Laboratories Ltd, Bangalore

8.5.2. Internship

The students are encouraged to do an internship in industries during vacation period and specifically, the students of final year are facilitated with long term internships in industries. The student internship will provide them a scope to practice as an industrialist on the floor. Initiatives and implementation details of industry internship / summer training are as follows:

Table 8.5.2.1. The details of the students participated in Internship Activity

S.No	Academic Year	No. of students	Industry Name
1	2023-24	13	SPAAR Research Labs, Chennai, Samarth Life science Pvt Ltd, Karnataka
2	2022-23	11	Glenmark, Mumbai, Mylan Industries Ltd, Hyderabad
3	2021-22	12	SPAAR Research Labs, Chennai

NANDHA COLLEGE OF PHARMACY, ERODE

Industrial Hands-on Training Programme



SPAAR Research Labs, Chennai

From 20/02/2024 to 07/03/2024

Figure.8.5.2.a. Industrial Training Particulars

NANDHA COLLEGE OF PHARMACY, ERODE

Industrial Hands-on Training Programme



28th March 2024

Presentation by Sixth Semester B.Pharm Trainee students who undergone Industrial Hands-on Training Programme at SPAAR Research Labs, Chennai

Figure.8.5.2.b. Industrial Training Particulars



Figure.8.5.2.c. Sample certificate for Industrial Training



Figure.8.5.2.d. Hands on training by industrial experts



Figure.8.5.2.e. Hands on training by our faculty in-campus

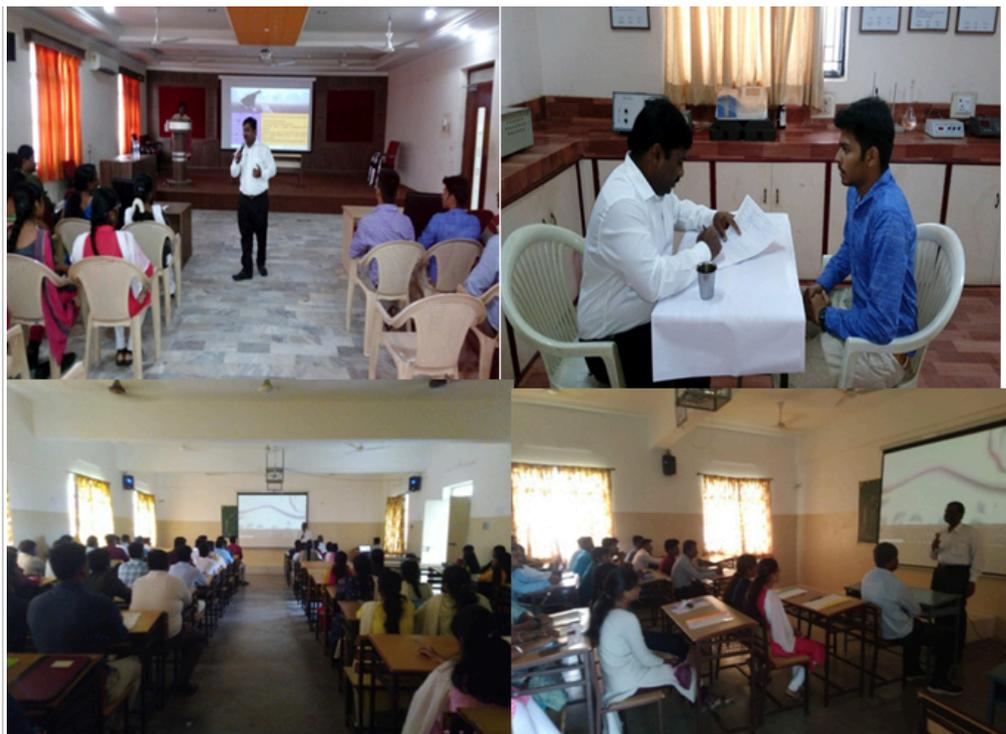


Figure.8.5.2.g. Campus interview preparation training

8.5.3. GPAT and Higher Education

Our institution conducts GPAT (Graduate pharmacy Aptitude Test) coaching to the students. The institution incorporate the study materials, conduct regular mock tests, offer personalized guidance, facilitate doubt clearing sessions and promote a supportive learning environment while aligning the curriculum closely with the GPAT syllabus and exam pattern

The Qualified GPAT students details are follows

Table.8.5.3.1. Details of Students Qualified in GPAT Exams

Year	Name of the student	Qualifying Exam
2023-24	Murugan.G	GPAT
2022-23	Saran Kumar	NIPER
	Dhivya Bharathi.R	GPAT
	Ranjith.K	GPAT
	Janani.S	GPAT

2021-22	Dakshinesh. P	GPAT
	Dibenthiran.S	GPAT
	Dharini.M	NIPER
2020-21	Jagadesh.N.V	GPAT
	Manigandan.M	NIPER
	Akshayaa.A	NIPER

8.5.4. Higher Studies Abroad

The final year B.Pharm students are motivated to participate in PG orientation program during 8th semester where HODs of all departments brief them regarding the scope of PG studies in india and abroad. The opportunities available after successful completion of PG studies are presented.

The HODs highlight their department strength in research, publications, instruments etc. The final year projects also help the students to get orientated towards research and identify their potential field of expertise. Apart from this, various management experts are invited to deliver guest lectures which may help the students to think about other PG courses like management, marketing etc.

The students who are interested to do the higher studies in other countries are provide the necessary guidance to prepare TOEFL, IELTS, GRE etc.



Table.8.5.4.a. Abroad studies guidance program

8.5.5. Government and other competitive exams

The institution provides good coaching quality for the students to enable them to appear in competitive examinations and succeed in obtaining an appropriate job in government Sector like Medical recruitment board (MRB).

Coaching classes are organizing throughout the year with a separate schedule for each examination as the competitive examinations are spread over the whole year without affecting regular academic activities.

Resource Persons/teachers with specialized knowledge in different disciplines from other premier institutes are invited to deliver lectures and provide coaching and guidance to students. Besides these, this centre is organizing group discussions and mock Interviews.

8.6 Entrepreneurship Cell (5)

Total Marks 5.00

Entrepreneurship development cell strives to inspire and integrate a culture of innovation through a conducive entrepreneurial ecosystem to help budding entrepreneurs realize their dream to start up their own enterprises. It refines the entrepreneurial skills like idea generation, opportunity evaluation, business modeling, cash flow, forecasting, negotiation and sales skills through hands on training, programs, mentoring and campus startups. Further, it facilitates incubating innovations through various schemes. It works towards building the leadership skills among the students to enhance their entrepreneurial competencies. It is functioning to motivate the students to become entrepreneurs and thus to make them job providers rather than job seekers.

8.6.1 Objectives of EDC:

- To develop and nourish the entrepreneurial spirit which is inherent in every learner and help them gain a broader and more importantly, entrepreneurial perspective of looking at life in every situation thus empowering them to excel as entrepreneurs.
- To foster culture of entrepreneurship among students.
- To conduct orientation and awareness programmes and to attract students into establishing their own enterprises.

8.6.2. Entrepreneurship Initiatives

The Pharmacy duty has been arranged to the students in different pharmacy sector, such a way that they are trained to start their own drug store, by providing adequate knowledge about

- How to apply for getting the license
 - To give the information about need to fill out an application form and submit the required documents to the Drug Control Department.
- How to get the loan from bank
 - To explain the amount of loan that can get depends on the type of loan, the purpose of the loan, and the business financial situation
 - To create the awareness and guidance to get the subsidy from the state government fund for starting the pharmacy store under "Muthalvar Marunthagam" scheme
- Initial startup procedure
 - From our alumni stakeholders arranged the workshop to start the pharmacy retail store, in connection with this the stakeholders given guidance share their ideas to the students such as the details of purchasing the drugs from wholesaler or direct purchase from the manufacturers, Billing methods with advanced software, Arrangement of drugs in the sectional rack, Dispensing procedures, storage conditions of selected drugs etc.

8.6.2.1. Entrepreneurship activities

Academic Year	Date	Types of Program
2023-24	12.09.2024	Awareness program
	12.02.2024	Entrepreneur skill development program
2022-23	24.11.2023	Workshop on entrepreneurship and innovation as a career opportunity
	20.04.2023	Awareness program
2021-22	09.06.2022	Awareness program
	25.08.2022	Awareness program

Table.8.6.2.2. Success index of students turned into Entrepreneurs

Academic Year	No. of students
2023-24	3
2022-23	2
2021-22	2



NANDHA COLLEGE OF PHARMACY
Erode-638052, Tamilnadu
(D.PHARM, B.PHARM, M.PHARM, PHARM.D, Ph.D)

Affiliated to The Tamilnadu De.M.C.R Medical University & Directorate of Medical Education, Chennai
Approved by Government of Tamilnadu & Pharmacy Council of India, New Delhi
B.Pharm course accredited by NBA

INSTITUTION'S INNOVATION COUNCIL
(University of West Bengal)

WORKSHOP ON ENTREPRENEURSHIP SKILL, ATTITUDE AND BEHAVIOUR DEVELOPMENT

Resource Person
Prof. JUNISE V. M. PHARM.,
VICE PRINCIPAL,
AL SHIFA COLLEGE OF PHARMACY,
PERINTHALMANNA, MALAPPURAM,
KERALA.

Date: 12/02/2024 Time: 09.30 am Venue: Auditorium

Figure.8.6.2.a. Entrepreneurship motivational program



Figure.8.6.2.b. Entrepreneurship motivational program

FORM 21
[See rule 61(2)]

Licence No. TN/SLE/21/00904 Date: 13-06-2024

Licence to sell, stock or exhibit or offer for sale or distribute by retail drugs specified in Schedules C and C (1) excluding those specified in Schedule X

1. Shri KARTHICK R.G, Proprietor of M/S SRI LAKSHMI MEDICALS is hereby licensed to sell, stock or exhibit or offer for sale, or distribute by retail the following categories of drugs specified in Schedules C and C (1) excluding those specified in Schedule X to the Drugs Rules, 1945, ~~and to operate a pharmacy~~ on the premises situated at Door No.275.S1-1, NORTH FACING, GROUND FLOOR, KADAI VEETHI, IYAMPATTI, 636113, Gangavalli Taluk, Salem District, Tamil Nadu, subject to the conditions specified below and to the provisions of the Drugs and Cosmetics Act, 1940 and the Rules thereunder.

2. The licence unless sooner suspended or cancelled, shall remain valid perpetually. However, the compliance with the conditions of licence and the provisions of the Drugs and cosmetics Act, 1940 (23 of 1940) and the Drugs Rules 1945 shall be assessed not less than once in three years or as needed as per risk based approach.

3. Name(s) of registered pharmacist(s) in charge:

S.No.	Name	Qualification	Registration Number
1.	E DHAMODHARAN	B.Pharm	37790A1

4. Categories of drugs: Drugs specified in Schedules C and C(1) excluding those specified in Schedule X to the Drugs Rules, 1945, including medical devices as specified under the Medical Devices Rules, 2017.

Signature valid
Signed by: Satish R.
Assistant Director, Drug Control,
Food Safety and Drug
Administration
Date: 13-Jun-2024 11:50:45

Licensing Authority
Assistant Director of Drug Control

FORM 21
[See rule 61(2)]

[REDACTED] Date: 16-11-2023

Licence to sell, stock or exhibit or offer for sale, or distribute by retail drugs specified in Schedules C and C (1) excluding those specified in Schedule X

1. Thiru S. SAVARINATHAN, Proprietor of M/s JENOVA MEDICAL is hereby licensed to sell, stock or exhibit or offer for sale, or distribute by retail the following categories of drugs specified in Schedules C and C (1) excluding those specified in Schedule X to the Drugs Rules, 1945, ~~and to operate a pharmacy~~ on the premises situated at D.No.2250-A, Ground Floor, East Facing, Kachrapalayam Main Road, Karadisthur (South) - 606207, Chinnasalem Taluk, Kallakurichi District, Tamil Nadu, subject to the conditions specified below and to the provisions of the Drugs and Cosmetics Act, 1940 and the Rules thereunder.

2. The licence unless sooner suspended or cancelled, shall remain valid perpetually. However, the compliance with the conditions of licence and the provisions of the Drugs and cosmetics Act, 1940 (23 of 1940) and the Drugs Rules, 1945 shall be assessed not less than once in three years or as needed as per risk based approach.

3. Name(s) of registered pharmacist(s) in charge:

S.No.	Name	Qualification	Registration Number
1	SAVARINATHAN S	B.Pharm	38151A1

4. Categories of drugs: Drugs specified in Schedules C and C(1) excluding those specified in Schedule X to the Drugs Rules, 1945, including medical devices as specified under the Medical Devices Rules, 2017.

Signature valid
Signed by: Kalasekaran Madhavan,
Assistant Director, Drug Control,
Food Safety and Drug
Administration
Date: 16-Nov-2023 15:58:12

Licensing Authority
Assistant Director of Drug Control

Figure.8.6.2.e. Proof of our alumni Entrepreneur

8.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

Nandha has incited the student activities by motivating and supporting the students to participate in various Co-Curricular and Extra Curricular activities.

Co-Curricular activities of the students is monitored by the respective department and Physical Director is responsible for the entire Extra Curricular activities. Proctor takes care of the development of students in both Co-Curricular and Extra Curricular activities.

The interested students are initiative to explore the Co-Curricular activities by supporting towards to bring innovative ideas.

There are some clubs in the college which will organize the extra-curricular activities of the students and students itself are the members in the club and conduct all these activities.

- Sports club- the students are informed and encourage to participate in the various sports events conducted by other colleges in around our institution.
- Health club-in this club the students are encouraged to participate voluntarily in blood donation camps conducted by the college and hospital in the college.
- Quiz club- this club provide chance to the students in improving their knowledge beyond the class subjects.
- Journal Club- improves student presentation and communication skills
- Periodic conductance of Cultural and Sports events

8.7.1. Summary of annual activities

Academic Year	Date	Program
2023-24	23.02.2025	Fresher's day celebration
	11.01.2025	Pongal celebration
	21.12.2024	Pharmacy week celebration
	16.10.2024	Women's health awareness program
	25.09.2024	World pharmacist day
	23.09.2024	Pharmacovigilance week quiz
	18.09.2024	Onam celebration
	05.07.2024	World environment day
	26.06.2024	Drug abuse day awareness program
	14.06.2024	World hypertention day
	10.04.2024	Blood donation camp
	19.03.2024	Women's empowerment program
	12.02.2024	Innovation day
	12.02.2024	Workshop on Entrepreneurship skill, attitude and behavior development
18.01.2024	National youth day	

2022-23	14.12.2023	Pharmacy week celebration
	02.12.2023	National pollution control day
	01.12.2024	World aids day program
	24.11.2023	Workshop on Entrepreneurship and Innovation
	19.11.2023	Hands on training program for post graduates
	11.11.2023	National Education day
	25.08.2023	Onam celebration
	25.09.2023	World pharmacist day
	14.06.2023	Blood blood donor day
	19.04.2023	Women's hygienic awareness program
	04.02.2023	World cancer day
	11.01.2023	Pongal celebration
2021-22	23.12.2022	Pharmacy week celebration
	01.12.2022	World aids day program
	14.11.2022	World diabetes day program
	26.09.2022	World pharmacist day
	26.08.2022	Onam celebration
	13.07.2022	Workshop on hands on training for analytical instruments
	23.06.2022	Blood donation camp
	11.02.2022	Memes competition for awareness
	10.02.2022	National de-worming day
12.01.2022	Pongal celebration	



Figure.8.7.b. Pharmacy week celebration



Figure.8.7.c. Onam celebration

NANDHA COLLEGE OF PHARMACY
ERODE-638052, TAMIL NADU
(D.PHARM, B.PHARM, M.PHARM, PHARM.D, PHLD)
Affiliated to The Tamil Nadu De.M.G.R Medical University & Directorate of Medical Education, Chennai
Approved by Government of Tamil Nadu & Pharmacy Council of India, New Delhi
B.Pharm course accredited by NBA

INTERNATIONAL DAY
**AGAINST
DRUG ABUSE
AND ILLICIT
TRAFFICKING**
JUNE -26
2024

Theme: "The evidence is clear: Invest in prevention"

Venue: Auditorium

NANDHA COLLEGE OF PHARMACY, ERODE - 638052

INTERNATIONAL DAY AGAINST DRUG ABUSE AND ILLICIT TRAFFICKING - 26th JUNE 2024

NASHA MUKT BHARAT ABHIYAN (DRUG-FREE INDIA CAMPAIGN)

Theme: "The evidence is clear: Invest in prevention"

Venue: Auditorium

Figure.8.7.d. Drug abuse day - Awareness program



Figure.8.7.e. Women's health - Awareness program



Figure.8.7.f. Pharmacovigilance week - quiz



Figure.8.7.g. World pharmacist day celebration



Figure.8.7.h. World aids rally program

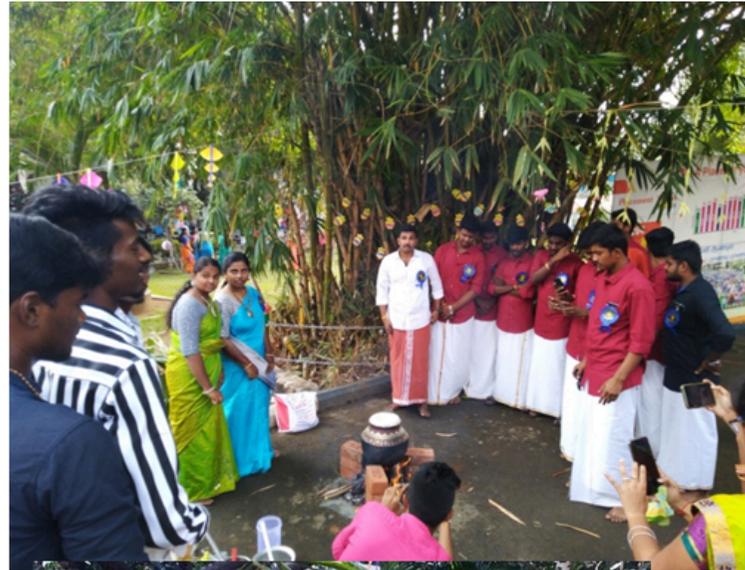


Figure.8.7.i. Pongal celebration



Figure.8.7.j. Intercollegiate sports meet



Figure.8.7.k. Intercollegiate cultural competition

Academic year 2023-24

1.	R.Rangarajan	D.Pharm, 1 st Sem.	Solo song	Excel College of Pharmacy, Komarapalayam	March 2024
2.	K.T.Ilancheran	B.Pharm, 4 th Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024

3.	M.Benjamin Rathnam	B.Pharm, 4 th Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
4.	V.Kaviarasan	B.Pharm, 4 th Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
5.	S.Gokul	B.Pharm, 4 th Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
6.	A.Balaji	B.Pharm, 3 rd Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
7.	.R.SowmiPrashath	B.Pharm, 3 rd Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
8.	C.Shakthi	B.Pharm, 3 rd Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
9.	V.Badrinath	B.Pharm, 1 st Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
10.	S.Sanjaykumar	B.Pharm, 1 st Sem.	Group dance	Excel College of Pharmacy, Komarapalayam	March 2024
11.	P.Praveen	B.Pharm, 4 th Sem.	Face painting	Excel College of Pharmacy, Komarapalayam	March 2024
12.	Deepika R	B.Pharm, 6 th Sem.	Face painting	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
13.	Nisha	B.Pharm, 6 th Sem.	Face painting	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
14.	Kalpana	B.Pharm, 4 th Sem.	Face painting	VET Institute of Arts and science (Co- education) College,Thindal	March 2024

15.	Sandhiya	B.Pharm, 6 th Sem.	Face painting	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
16.	Sathya	B.Pharm, 4 th Sem.	Cook without fire	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
17.	Sheena	B.Pharm, 5 th Sem.	Cook without fire	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
18.	Nithyasri	B.Pharm, 5 th Sem.	Cook without fire	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
19.	Harsha	B.Pharm, 6 th Sem.	Art from waste	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
20.	Vidhya.V	B.Pharm, 4 th Sem.	Art from waste	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
21.	Kirthika	B.Pharm, 6 th Sem.	Mehandhi	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
22.	Sivaranjini.C	B.Pharm, 4 th Sem.	Mehandhi	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
23.	Mariya	B.Pharm, 5 th Sem.	Mehandhi	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
24.	Keethika S	B.Pharm, 6 th Sem.	Group dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024

25.	Priyanka	B.Pharm, 4 th Sem.	Group dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
26.	Leemasri	B.Pharm, 6 th Sem.	Group dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
27.	Suwetha	B.Pharm, 4 th Sem.	Group dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
28.	Harini	B.Pharm, 5 th Sem.	Group dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
29.	Savitha	B.Pharm, 4 th Sem.	Solo dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024
30.	Deepasri	B.Pharm, 5 th Sem.	Solo dance	VET Institute of Arts and science (Co- education) College,Thindal	March 2024

9 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (100)

Total Marks 100.00

9.1 Organization, Governance and Transparency (50)

Total Marks 50.00

9.1.1 Governing body, administrative setup, functions of various bodies, service rules procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

9.1.1.A. Governing Body.

Roles and Responsibilities of Governing Body:

- To make strategic plan for 5 years.
- To make necessary provision for quality infrastructure.
- To create policies for Nandha College Of Pharmacy and prepare, modify, approve, carry out, and monitor them.
- To set-up different committees for smooth functioning of administrative and academic activities at college.
- To formulate feedback mechanism and monitor its functionality.
- To monitor and evaluate functioning of administrative and academic committees.
- To approve budget for academic year.
- To review overall progress of college

Composition of Governing Body (GB):**Table : Members of GB**

S.no	Name and Designation	Category
1	Thiru. V. Shanmugan, B.Com.,Chairman, Sri Nandha Educational Trust	Management
2	Thiru. S. Nandhakumar Pradeep, MBA., Secretary, Sri Nandha Educational Trust.	Management
3	Thiru. S. Thirumoorthi, BPT., Nandha Educational Institutions	Management
4	Dr. S. Arumugam, Chief Executive Officer Nandha Educational Institutions	Management
5	Dr.S. Sengottuvelu, Professor & Head, Department of Pharmacology,Nandha College of Pharmacy, Erode	Faculty,Nominated By Principal
6	Dr.A.Sumathi, Professor & Head, Department of Pharmaceutics, Nandha College of Pharmacy, Erode	Faculty,Nominated By Principal
7	Dr. R.Kalaiselvan, M.Pharm, Ph.D., Deputy General Manager, Formulation R&D,Sun Pharma Industried Ltd., Gurgan, Delhi NCR-122015 Mobile – 9910471053	Industry Nominee
8	Dr. Radha Professor & Head,Department of Pharmacognosy, Madras Medical College, Chennai.	State Government Nominee
9	Dr.T.Sivakumar, Principal, Nandha College of Pharmacy, Erode.	Ex-Officio Member

Frequency of the meeting : Twice an Academic Year (one online one offline.)**9.1.1.B. Functions and Responsibilities of the Administrative and Academic Bodies**

The details of the various Administrative and Academic bodies are given in the table below:

Statutory Committees:

S. No	Name of the Body	Members	Frequency of Meeting	Functions
1	Governing Body	Management Representatives, Eminent Professionals From Industry, Academicians of Excellence, University/State / Central Government Nominees, Special Invitees, Member Secretary - Ex-Officio (Principal)	Twice in a year	<ol style="list-style-type: none"> 1. Admissions for the academic year 2023-2024 2. Examination Results 3. Achievements of students and Faculty 4. Faculty Details (Faculty relieved, Faculty Promotions..etc) 5. Budget Proposal of the financial year 2024-2025 6. Grants Received by funding agencies 7. NBA, NAAC Accreditations & Ranking 8. Placements & MoUs 9. Other Activities
2	Finance Committee	Chairman Nominee of the Governing Body Senior-most faculty nominated by the Principal Finance Committee	Once in a year	<ol style="list-style-type: none"> 1. To discuss and consider budget estimates of the institution 2. The Finance Committee shall act as an advisory body to the Governing Body, to consider: Budget estimates. 3. Verify Budget and Expenses. 4. To discuss and consider income from fees collected from students 5. Audit accounts for the above.

Non-Statutory Committees:

Besides the afore mentioned committees, there are also a number of non-statutory committees with the Principal as the Chairperson. These committees advise the Principal as and when necessary on specific issues. These committees are:

- IQAC
- Examination Committee
- Grievance Committee
- Anti Ragging Committee
- Purchase Committee
- Library Committee
- Admission Committee
- Discipline Committee

- Hostel Committee
- Sports and Extra Curricular Committee
- Placement Cell
- Women Development Cell
- Institute Invoation Council
- Entreprenuership Cell
- Alumni Cell
- R&D Cell
- Planning & Evaluation Committee
- Sexual Harassment Committee
- SC/ST Committee

9.1.1.C Policies and Procedures:

Nandha College of Pharmacy has defined policies which were developed with involvement of various stakeholders including HR team, faculty members, Principal, members of Management and members of the Governing Body. The policy was developed in the year 2005 and based on the needs and it was revised and new policy amendments were brought in for the stakeholders.

The HR policies include

- Faculty recruitment
- Salary and Incentive
- Leave rules
- Promotion and Retirement policy
- Discipline and Grievance procedure
- Faculty Development – R&D and Consultancy
- Appraisal policy
- Code of Conduct - Students and Faculty.
- Admission Policy & Fee Structure

Website Link for the HR policy

<https://www.nandhapharmacy.org/wp-content/uploads/2024/03/NCP-HR-POLICY-1.pdf> (<https://www.nandhapharmacy.org/wp-content/uploads/2024/03/NCP-HR-POLICY-1.pdf>)

9.1.2 Decentralization in working and grievance redressal mechanism (15)

Institute Marks : 15.00



NANDHA COLLEGE OF PHARMACY, Erode - 52.

INSTITUTION ORGANOGRAM



Figure 1: Institutional Organogram

Majority of the decisions within the department are taken by the respective heads of the departments. A core team comprising of senior faculty members lead the major process in the institute to realize that all the process is followed and are intact. Under the guideship of Principal various committees are formed to take care of different decentralized activities in respect of academies, curricular and co-curricular activates. The following table provides the details of various committees and coordinators of the committees.

* Statutory and Non-Statutory Committees

S. No.	Name of the Committee	Responsibility
1	Governing Body	Dr.S. Sengottuvelu
2	Finance Committee	Mr.A.Siva Prakasam

Table: 9.1.2 b Statutory and Non-Statutory Committees and Coordinators

S. No.	Name of the Committee	Responsibility
1	IQAC	Dr. S. Sengottuvelu, HOD/ Pharmacology
		Dr. R. Duraisamy, HOD/ Pharmacognosy
		Dr.T. Prabha, HOD/ Pharmaceutical Analysis
		Dr.S. Tamilarasi, HOD/ Pharmaceutics
		Dr. K. Kamalakannan, HOD/Pharmaceutical Biotechnology
2	ANTI RAGGING COMMITTEE	Dr. R.Duraisami
		Dr. S.Senguttovelu
		Dr.T.Prabha
		Dr.K.P.Mohanraj
		Mrs. S.Sri Bhuvaneswari
3	Sexual Harassment Committee	Dr. A.Sumathi
		Mr.J.Thirumaran
		Mrs.S.Sasikala
		Ms.E.Manickavalli

		Dr. M.Jegatheswaran
4	PLACEMENT CELL	Dr.R.Sumathi Mrs.S.Sri Bhuvanewari Dr. Haja Sherif
5	EXAMINATION CELL	Dr.S.Senguttovelu Mr.J.Thirumaran Dr. Haja Sherif
6	SPORTS CELL	Dr.K.P.Mohanraj Dr.K.Menaka Mrs.Sivaranjani Dr. Haja Sherif
7	CULTURALCELL	Dr.S.Hemalatha Mrs.S.Punitha Mrs.A.Kiruthika Dr. R.Sumathi Dr.P.Amsa
8	ALUMNI CELL	Dr.V.Lalitha Dr.Jegastheswaran Mrs.S.Kiruthika Dr. R.Sumathi Dr.P.Amsa
9	DISCIPLINARY COMMITTEE	Dr.V.Lalitha Dr.Jegastheswaran Mrs.S.Kiruthika Dr. S.Senguttovelu
10	ANIMAL ETHICS COMMITTEE	Dr.Haja Sherif Dr.V.Lalitha Mrs.Gladys Kalpana
11	HUMAN ETHICS COMMITTEE	Dr.Apollo James Dr.S.Hemalatha Dr.K.Menaka

12	R&D COMMITTEE	Dr. T.Prabha
		Dr.A.Tamilarasi
		Dr.A.Sumathi
		Mrs.S.Sasikala
		Ms.P.Haritha
13	SC/ST COMMITTEE	Ms.Mousmi
		Dr.K.KrishnaMoorthy,CAO
		Mrs.S.Sri Bhuvaneswari
14	WDC COMMITTEE	Dr.R.Sumathi
		Dr.P.Amsa
		Mrs.P.Sethumathi
		Dr.T.Prabha
		Dr.A.Sumathi
		Dr.S.Senguttovelu
		Dr.A.Tamilarasi
		Dr.V.Lalitha
		Dr.M.Jegadeeswaran
		15
Dr.K.Menaka		
Mrs.S.Punitha		
Mrs.Gladys Kalpana		
Mr.J.Thirumaran		
Ms.E.Manickavalli		
Ms.P.Haritha		
Mrs.G.Kiruthika		
16	GRIEVANCE REDRESSAL COMMITTEE	Dr.P.Amsa
		Mrs.P.Sethumathi
		Mrs.Sameema Begum
		Mrs.Thangamani

		Dr.K.KrishnaMoorthy,CAO
		Mrs.Sameema Begum
17	LIBRARY COMMITTEE	Mrs.Thangamani
		Mrs.S.Sasikala
		Mrs.Sasikala(Librarian)

Grievance Redressal Cell

The College has a grievance redressal cell headed by Principal and committee staff members . The committee constituted discusses/ solves issues related to grievances. There is a portal to register the grievance. The Process is mentioned below as a flow chart.

GRIEVANCE REDRESSAL COMMITTEE

No	Designation	Name of Person
1	Chairperson: Head of the Institution	Dr. T. Sivakumar, Principal
		Dr.P.Amsa
2	Committee Members	Mrs.P.Sethumathi
		Mrs.Sameema Begum
		Mrs.Thangamani

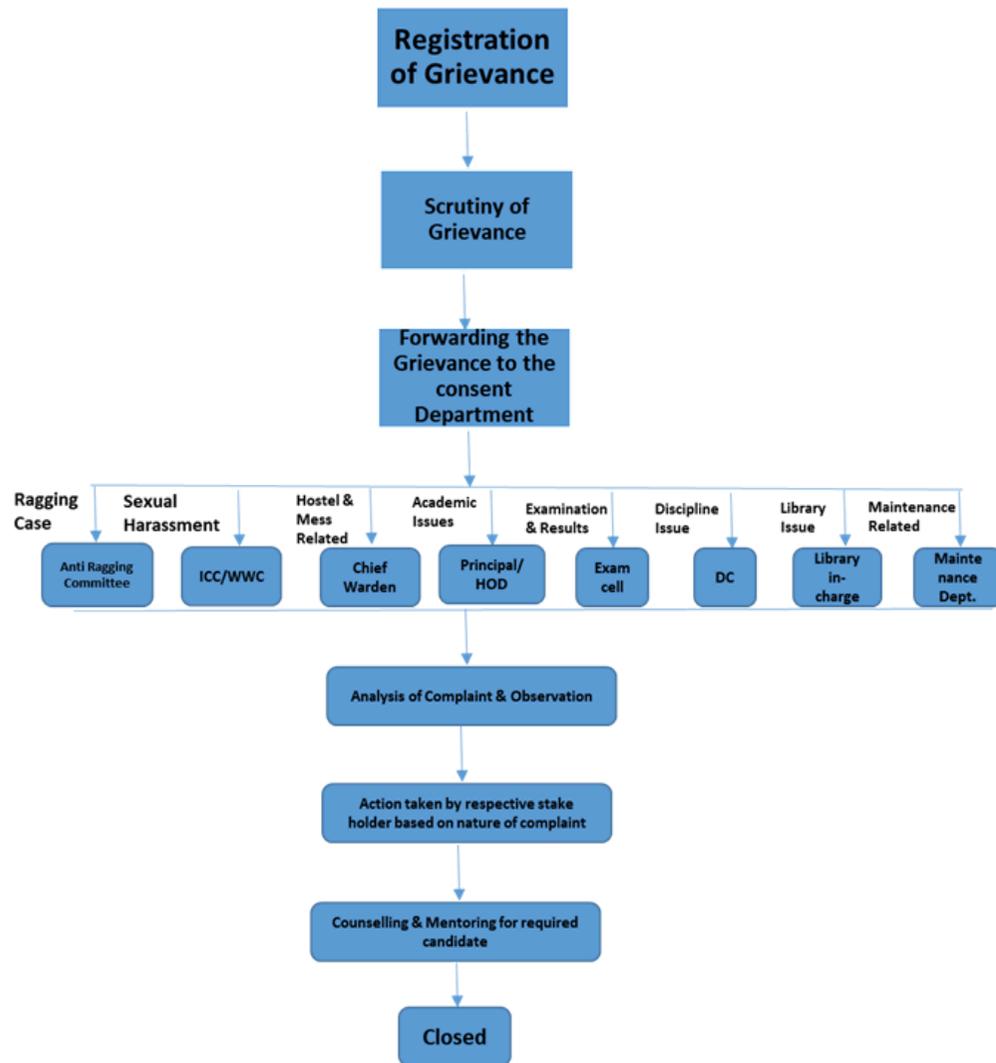


Figure 2: Process of Grievance Redressal



NANDHA

COLLEGE OF PHARMACY

Approved by PCI, Affiliated to The Tamil Nadu Dr. MGR Medical University
Accredited by NBA, AICTE, New Delhi.



Admission 2023 - 2024

Proposed Deemed To Be University - NIMTS

[Alumni Portal](#)

[Grievance](#)

- [Home](#)
- [About US](#)
- [Academic](#)
- [Admission](#)
- [IQAC](#)
- [Library](#)
- [Placement](#)
- [Infrastructure](#)
- [Research](#)
- [Events](#)
- [Students Corner](#)
- [IIC](#)
- [NBA](#)
- [NIRF New!](#)
- [RTI](#)

[Contact us](#)



Students Grievance Form

Personal Details

drtpappa@gmail.com [Switch account](#)



Not shared

Full Name

Your answer

E-mail ID

Your answer

Gender

Male

Female

Figure 3: Snapshot of Grivance portal displayed in Institutional Website

9.1.3 Delegation of financial powers (15)

Institute Marks : 15.00

Principal is authorized to sanction up to Rs. 1 Lakh for institutional expenses like organizing events, sponsoring faculty members for attending programs, purchase of items for laboratory, maintenance, etc.

The Heads of the department are authorized to sanction up to Rs. 25,000/- for departmental expenses. Department heads will prepare and submit the budget proposals for purchase of capital equipment/consumables, service of equipment/machinery every year. Upon approval of the same by the management, purchases of consumables and capital equipment are made through the purchase/Finance department of the college.

9.1.4 Transparency and availability of correct/unambiguous information in public domain (10)

Institute Marks : 10.00

The Nandha College of Pharmacy website provides details about the faculty and staff, mandatory disclosure, audited statements, institutions policies, rules and processes. The details various activities in the college and achievements of faculty and students in various inter-college, national and inter-national level events are posted in the college website and available in the following link

College website: <https://www.nandhapharmacy.org/> (<https://www.nandhapharmacy.org/>)

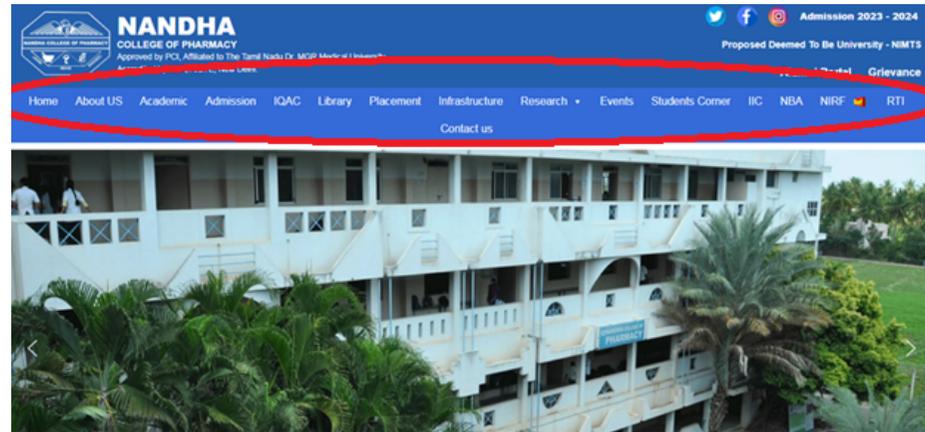


Figure B. 9.1.4 College website page

Transparency is also maintained and all information about the college, decisions taken, rules implemented, events organized etc. are disseminated through the college mail to all faculty members and students. Each faculty and student members are provided with an e-mail account, which they may log in at any time of the day and use it for exchanging information and important documents. The information is also disseminated to the entire newly recruited faculty members during the faculty orientation conducted for the newly recruited faculty members.

Transparency in other curricular matters:

- Policy decisions taken in the Governing Body meeting is conveyed to HoDs time to time by the Principal
- Decisions of HoDs meeting with Principal are also conveyed to all faculty members and students.
- Details related to examinations and assessments are duly conveyed to faculty and student members well in advance as per the schedule given in the academic calendar.
- Attendance, Continuous Assessment marks of both theory and laboratory courses are conveyed to the students and parents.
- Annual budget prepared by the department coordinators is reviewed by the HoDs and then submitted to Principal for approval. After approval of budget, quotations are called; compared and final orders are placed for purchase of items/equipment.
- High valued items/equipment (more than one lakh) quotations will be scrutinized by a committee.

9.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Total Marks 30.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2024-2025

Total Income 7200000				Actual expenditure(till...): 69312786			Total No. Of Students 600
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
7200000	0	0	0	41500000	26762781	1050005	115521.31

Table 2 - CFYm1 2023-2024

Total Income 69854000				Actual expenditure(till...): 69014282			Total No. Of Students 659
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
69854000	0	0	0	39005200	28857052	1152030	104725.77

Table 3 - CFYm2 2022-2023

Total Income 67518000				Actual expenditure(till...): 66535414			Total No. Of Students 682
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
67518000	0	0	0	37700045	27872319	963050	97559.26

Table 4 - CFYm3 2021-2022

Total Income 58311000				Actual expenditure(till...): 55504721			Total No. Of Students 627
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
58311000	0	0	0	35408000	19381518	715203	88524.28

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	1000000	827600	2000000	1269844	3000000	1152000	3000000	1681905
Library	500000	173850	500000	358515	500000	450201	500000	235780
Laboratory equipment	2500000	2005623	3000000	2601320	2000520	1856704	1000000	423600
Laboratory consumables	950257	829620	852680	911946	600000	546936	300000	122750
Teaching and non-teaching staff salary	39000000	39200000	37000000	36805200	35000000	35600045	34208000	33008000
Maintenance and spares	12500000	11365400	11000000	12067586	13000000	13504123	12000000	12005200
R&D	300000	180070	300000	150045	300000	180450	300000	155230
Training and Travel	300000	175615	300000	292796	200000	181891	200000	179030
Miscellaneous expenses*	12000000	11205000	11000000	11205000	10500000	10000014	4000000	4578023
Others, specify	2500000	2300000	2500000	2200000	2500000	2100000	2500000	2400000
Total	71550257	68262778	68452680	67862252	67600520	65572364	58008000	54789518

9.2.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Budget Allocation and Utilization under different categories

Budget is prepared based on the needs and requirements of the department laboratories,R&D, Miscellaneous expenses, Training and Travel. Budget is prepared at the department level and submitted to the Principal. After the deliberations in HoDs meeting it is ubmitted to the management for approval. The management in consultation with HoDs, Deans and Principal approves the budget to the departments. The budget allocated to the departments is adequate to meet the requirements of each department.

YEAR	2024-2025	2024-2023	2023-2022	2022-2021
BUDGET	71500257	69052680	67500520	58008000
ACTUAL EXPENSES	68262781	67862252	65572364	54789518

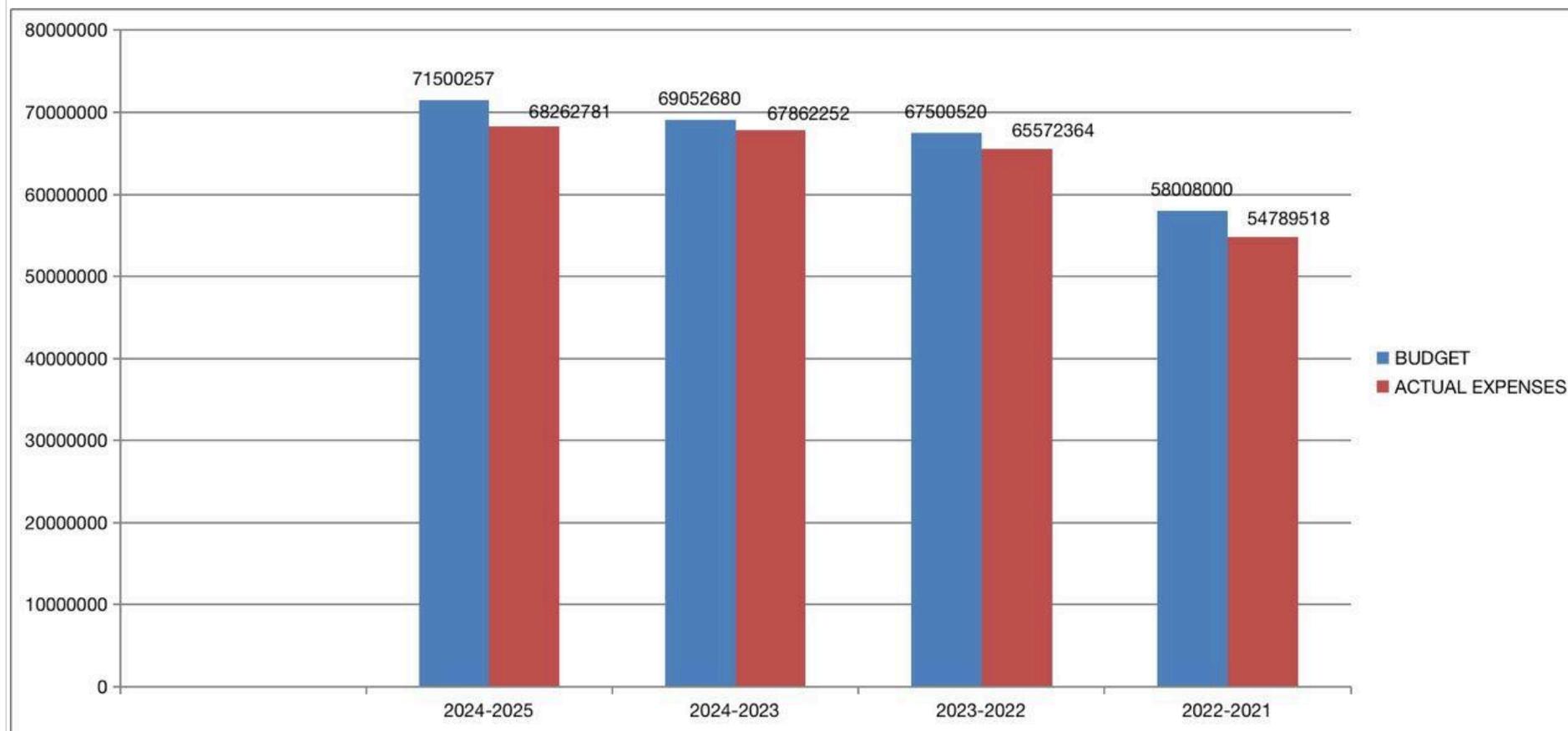


Figure 1: Bar diagram shows the budget allotted and actual expenses made

YEAR	2024-2025	2024-2023	2023-2022	2022-2021
BUDGET	71500257	69052680	67500520	58008000
ACTUAL EXPENSES	68262781	67862252	65572364	54789518
% Utilized	95.47	98.28	97.14	94.45

9.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

Audited statements for last three financial years (CFYm1, CFYm2, and CFYm3) are available on the Institute's website.www.nandhapharmacy.org
<https://nandhapharmacy.org/audited-statements/>

9.3 Library and Internet**It is assumed that zero deficiency report was received by the institution, Effective availability and utilization to be demonstrated. (20)**

Total Marks 20.00

9.3.1 Quality of learning resources (hard/soft) (10)

Library:

Library is the resource hub for knowledge and has a vast collection of books, journals, magazines, periodicals. Library has facilities such as CAMPES I LIB software and OPAC (Online Public Access Catalogue) which is used by students & faculty for search of books by title/ author name etc. Separate reading room is available for undergraduate, postgraduate students and teachers. Separate e-library is also available with facilities such as subscription for e-journals, e-books.

The learning process is supported by a rich and voluminous library with all-time internet facility for students and staff. Our library is supported by a more than 9889 textbooks, references, books, national/international journals, periodicals and other readable articles online through internet.

Library has a seating capacity of more than 100 students at a time. 7 computer terminals with latest software and free internet facility, Xerox and Printing facility are available for student use. Library is equipped with a printing and photocopying facility for the convenience of the students and well-furnished to improve the comfort level. Internet facility with free downloading is provided to the students. More than 389 online journals, E-Books and other E-resources are available from N- Digital library for the students through library subscription and national and international printed journals are made available for the students free of cost for their literature survey.

OPAC computerized system is provided to the students, which facilitates them to have a glance at the number of books available, number of issued books, new books added to the list which helps them to issue the correct book when required. In addition, we have provided departmental library to individual PG departments of the institute for the smooth functioning. Library is spread over 1680sq.ft. area having separate issue return section, reading section, reference section, computer online section.

Library has a free access system for the students where they can choose the book that is required by them for issue. Every student can issue maximum 2 books whereas final year students can issue 3 books to facilitate them for GPAT preparation. Library also promotes the donation of the old used books by the faculty, students and alumni for more enrichment of the library and also develop the attitude of giving among the staff and the students. Library is installed with Integrated Library Management System for smooth working of library that includes accessioning, issue return, OPAC, data generation, stock verification.



Quality of Learning Recourses (Hard/Soft)

- Library Services : Yes
- Carpet area of library (in m2) : 156.0771
- Reading space (in m2) : 580
- Number of seats in Reading space : 100
- Number of users (issue book) per day : 52
- Number of users (reading space) per day : 75

*** Timing and Usage:**

During Working Days : 9.00 A.M – 6.00 P.M

Weekend : 9.00 A.M – 6.00 P.M

Number of Library staff : 1

Number of Library staff with degree in library : 1

- Commercial Campus i-lib Software (Version : 5.7.0) used for search and indexing of books

- Library services on internet / intranet INDEST or other similar membership.

*** Eligibility for Borrower**

UG Students : 2 Books

PG Students : 4 Books

Faculty members

Teaching : 10 Books

Non-Teaching : 3 Books

*** Online Packages**

- Online journals and E-Books (DELNET,MICRO MEDEX)

*** Institutional Member**

- DELNET

*** Archival**

- Back volumes : 1208

- Project report : 748

*** Titles and volume per title**

Number of titles / Volumes : **4295/9889**

Table 9.3.2 b

Scholarly Journal Subscription Year	Number of New Titles added	Number of New editions added	Number of New Volumes added
2024-25	40	10	152
2023-24	56	15	182
2022-23	152	22	851

Table 9.3.2 b Scholarly Journal Subscription

Year	No. of Technical Scholarly Journal Subscription	
	Magazines/ Periodical	
2024-25	46	DELNET
		E-Consortium
		Micro-Medex
2023-24	46	DELNET
		E-Consortium
		Lexi-comp
2022-23	45	DELNET
		E-Consortium
		Micro-medex

Number of e-books: 128

Number of e- periodicals: 389

Number of e- proceedings: **NANDHA COLLEGE OF PHARMACY**

Number of e- Thesis: 758

Number of CD's, DVD's: 128

Internet connectivity: 100Mbps

MOOC Facility available: Yes

• Availability of an exclusive server: Yes

• Availability over Intranet/Internet: Yes

• Availability of exclusive space/room: Yes

• Number of users accessing E-Learning (per day): 100 members/ day

9.3.3 Library expenditure on books, magazines/Journals, and miscellaneous contents

Table 9.3.3a

Library Expenditures / Year		Expenditure in Rs. (Lakhs)		
		Magazines/Journals (for hard copy subscription)	Magazines/Journals (for Soft copy subscription)	
Book				
25	2024-	1,45,756	1,73,368	2,43,570
	2023-24	1,26,549	1,58,507	2,13,570
	2022-23	2,16,813	1,44,821	2,23,570

9.3.2 Internet (10)

Institute Marks : 10.00

Name of the Internet provider	BSNL & RAILNET
Available band width	500 Mbps
WiFi availability	Through the Library
Internet access in labs, classrooms, library and offices of all Departments	Computer Lab (LAN)
Security arrangements	Licensed Antivirus software at the Library

**Annexure I
(A) PROGRAM OUTCOME (POs)**

ANNEXURE I: PROGRAM OUTCOMES

- 1. Pharmacy Knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
- 2. Planning Abilities:** Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
- 3. Problem analysis:** Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
- 4. Modern tool usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
- 5. Leadership skills:** Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
- 6. Professional Identity:** Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
- 7. Pharmaceutical Ethics:** Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
- 8. Communication:** Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
- 9. The Pharmacist and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
- 10. Environment and sustainability:** Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 11. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institutes shall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Name : Dr.T.Sivakumar

Designation : Principal

Signature :



Seal of The Institution :



Place : Erode

Date : 03-03-2025 16:48:47

