

#### FIRST CYCLE NAAC ACCREDITATION 2023

#### **CRITERION 2**



#### **TEACHING-LEARNING AND EVALUATION**

2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL



Nirmala Hills, Muvattupuzha P.O, Ernakulam district, Kerala, India – 686 661

2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

#### **INDEX**

#### Course Outcomes (COs) for all Programmes offered by the institution: Displayed

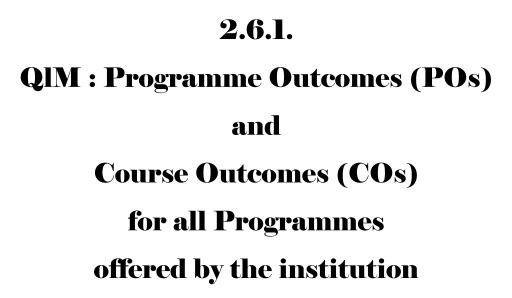
Sl no	Content	View Page		
1.	Programme Outcomes (POs) and Course	view		
	Outcomes (COs) for all Programmes displayed			
	in website			
2.	Programme Outcomes (POs) and Course	view		
	Outcomes (COs) for all Programmes displayed			
	in Campus 7 (students portal)			
3.	Programme Outcomes (POs) and Course	view		
	Outcomes (COs) for all Programmes displayed			
	in classes and labs			
4.	Programme Outcomes (POs) and Course	view		
	Outcomes (COs) for all Programmes displayed			
	in handbook and calender			
5.	Programme Outcomes (POs) and Course	view		
	Outcomes (COs) for all Programmes displayed			
	in practical records			







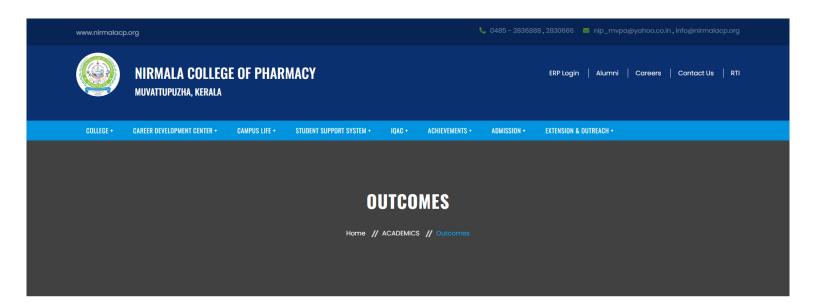






## 2.6.1: Program Outcomes (POs) for all Programmes offered by the institution: Displayed on Website





PROGRAM OUTCOMES
B PHARM COURSE OUTCOMES
EMARM.D. COURSE OUTCOMES

#### **Outcomes**

program-outcome Open Document

#### **Program Outcomes**







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CAREER DEVELOPMENT CENTER +

CAMPUS LIFE +

STUDENT SUPPORT SYSTEM +

IOAC +

ACHIEVEMENTS +

ADMISSION +

EXTENSION & OUTREACH +

#### **B.PHARM**

Home // Programmes Offered // B.Pharm

VISION

**EDUCATIONAL OBJECTIVES** 

#### PROGRAM OUTCOMES

PROGRAM SPECIFIC OUTCOMES

ELIGIBILITY

SCOPE

SYLLABUS

REGULATIONS

BROCHURE

#### **Program Outcomes**

- PO.1 Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioural, social, and administrative pharmacy sciences; and manufacturing practices.
- PO.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.
- PO.3 Problem Analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyse, evaluate and apply information systematically and shall make defensible decisions.
- P0.4 Modern Tool Usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
- PO.5 Leadership Skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning
  changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership
  roles when appropriate to facilitate improvement in health and wellbeing.
- P0.6 Professional Identity: Understand, analyse and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
- PO.7 Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behaviour 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.
- PO.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.
- PO.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.
- PO.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.
- PO.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.





**Quick Links** 

About U

Careers
News & Events

Handbook

Courses

Departments

Handbook

Academic Calender

**Useful Links** 

Photo Gallery
Video Gallery

Placement

VISION

**EDUCATIONAL OBJECTIVES** 

PROGRAM DITCOMES

#### **Program Specific Outcomes**

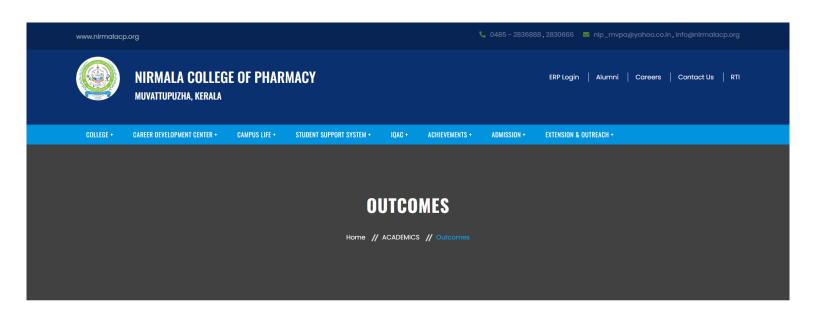
**PSO.1** Students will be able to become experts in drug and formulation development, manufacturing, and quality control since they acquire a strong foundation of the underlying principles.

quality assurance, and compliance standards

PS0.3 Students will be able to emerge as competent and compassionate healthcare professionals who can contribute to the well-being of individuals and communities through the safe and effective use of pharmaceuticals.

**PS0.4** Students will be able to Identify business opportunities, initiate entrepreneurship, and contribute as a reliable resource for research, consultation, and training.





#### **Outcomes**

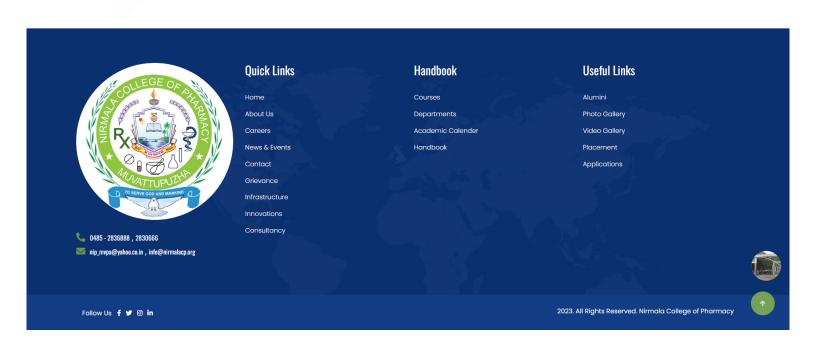




PROGRAM OUTCOMES

PHARM D COURSE OUTCOMES

M PHARM COURSE OUTCOMES



VISION

**EDUCATIONAL OBJECTIVES** 

PROGRAM DITCOMES

#### **Program Specific Outcomes**

**PSO.1** Students will be able to become experts in drug and formulation development, manufacturing, and quality control since they acquire a strong foundation of the underlying principles.

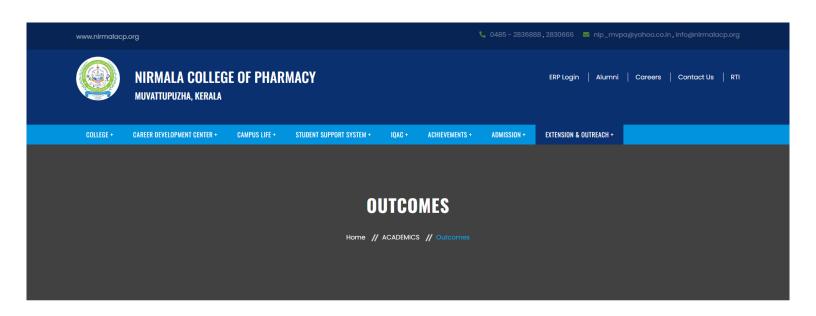
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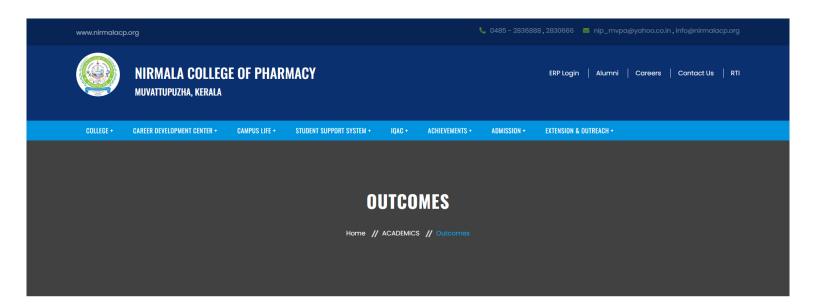




#### **Outcomes**







PROGRAM OUTCOMES

B PHARM COURSE OUTCOMES

PHARM D COURSE OUTCOMES

#### **Outcomes**



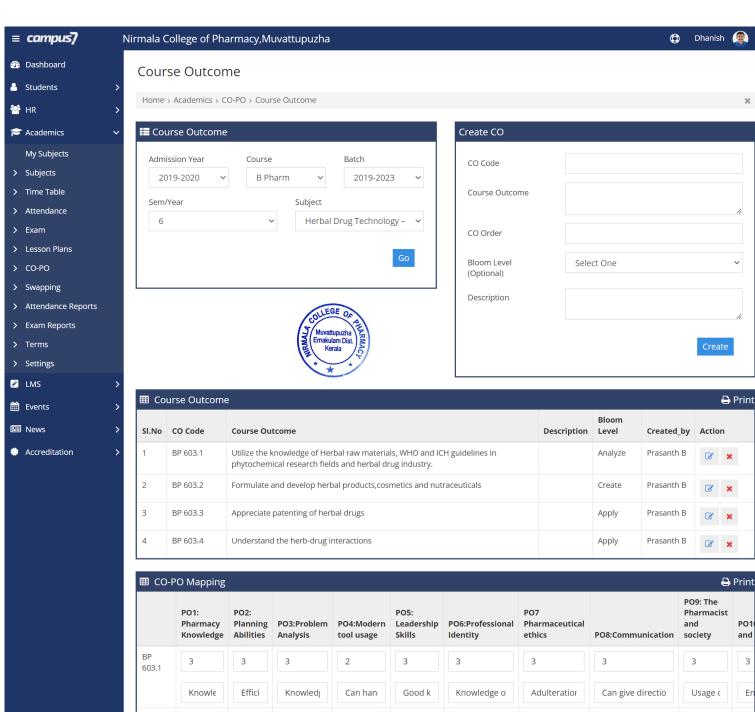
#### **M Pharm Course Outcomes**

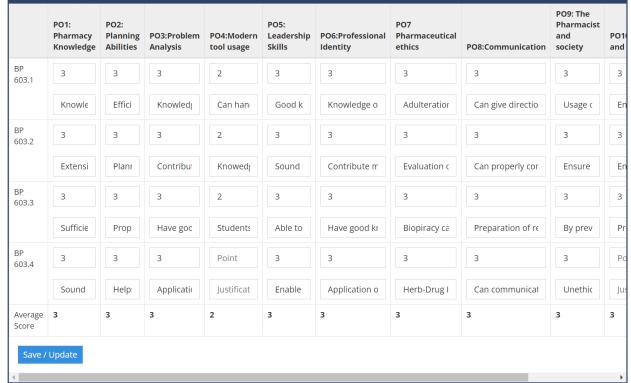


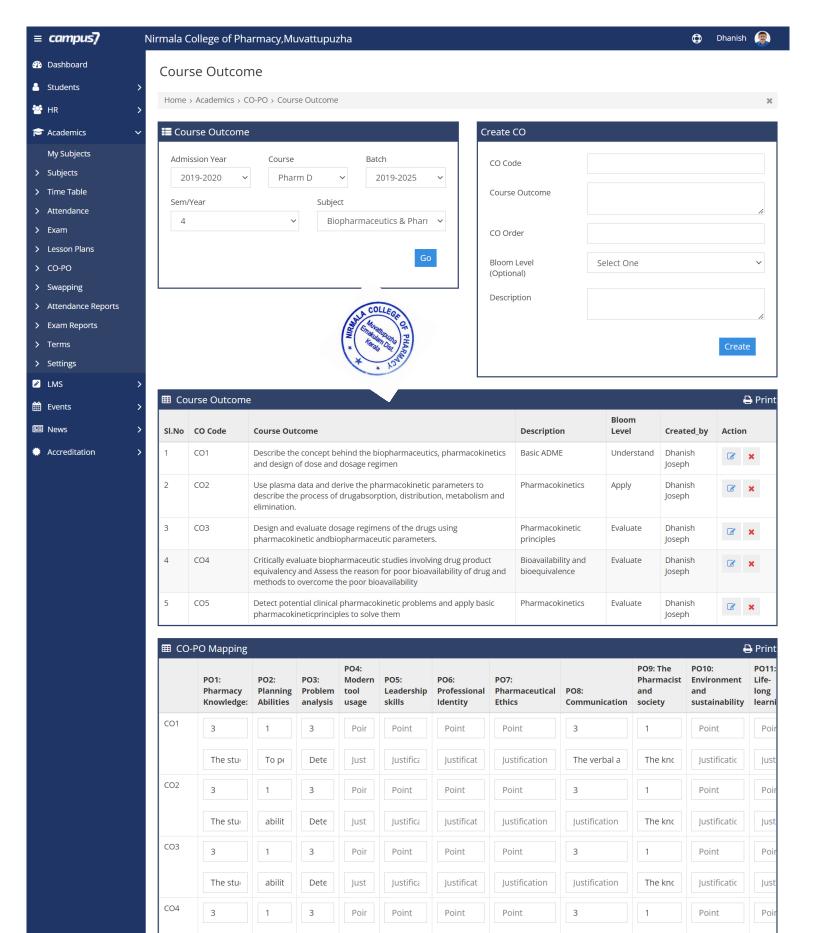


# 2.6.1: Program Outcomes (POs) for all Programmes offered by the institution: Displayed on Campus 7 (student portal)









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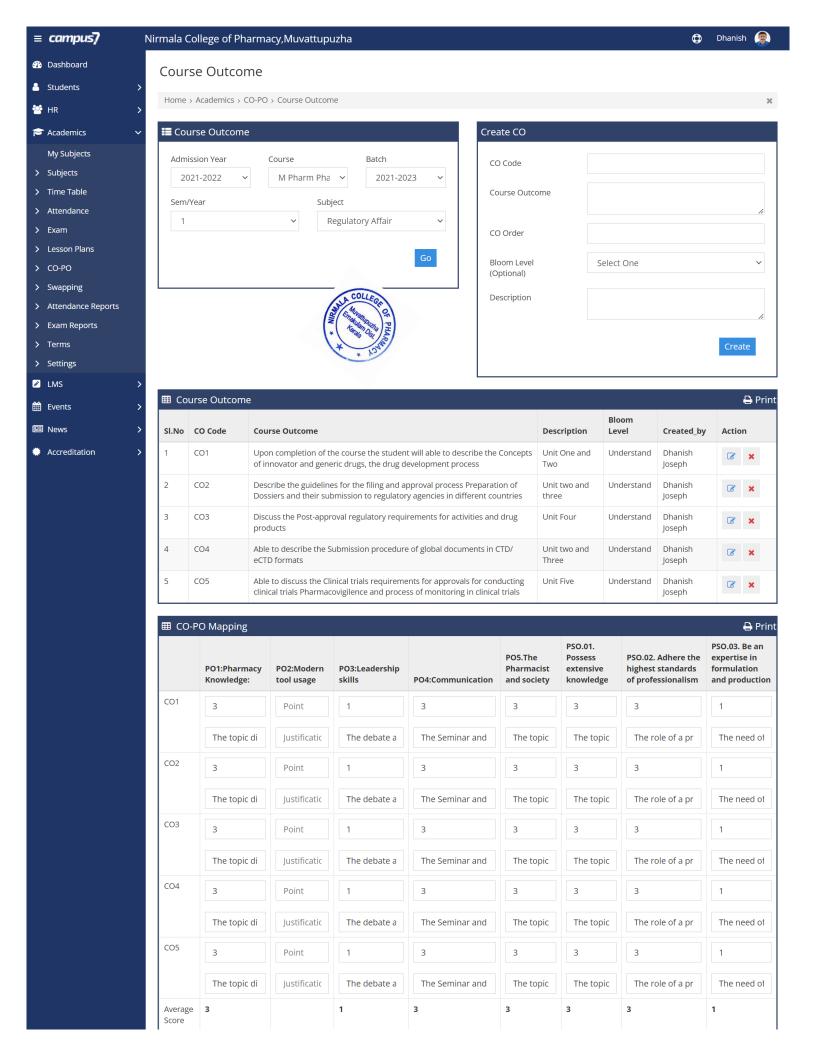
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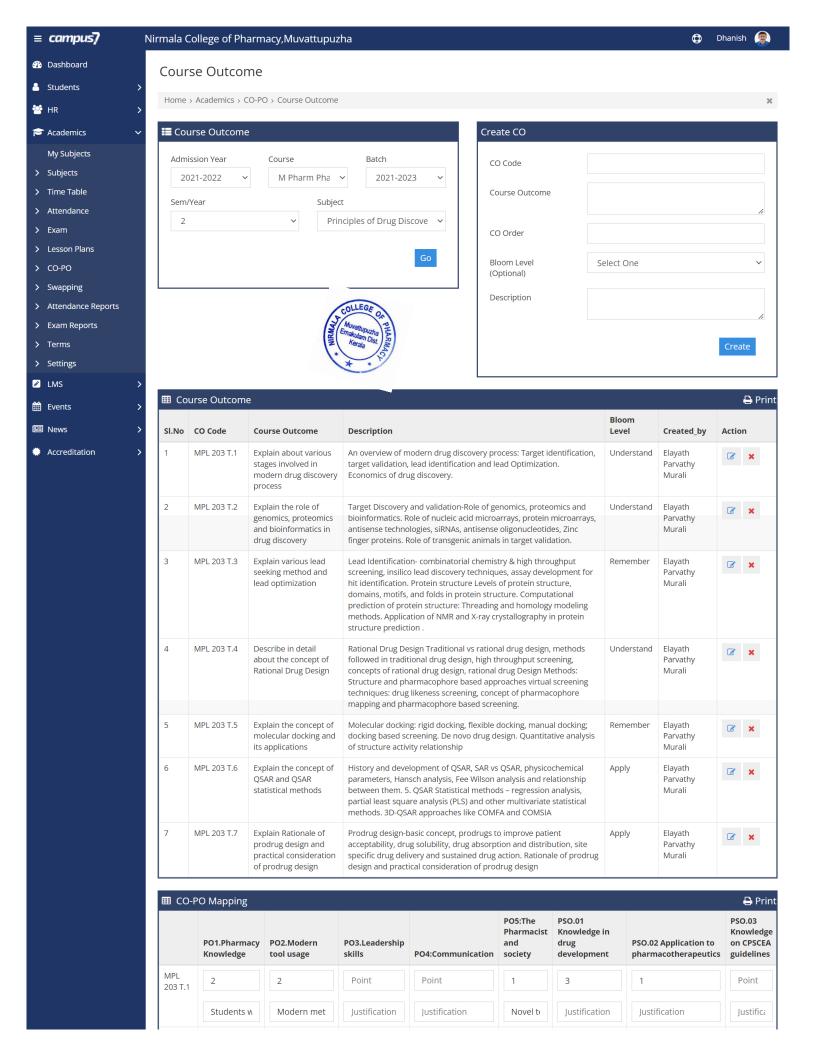
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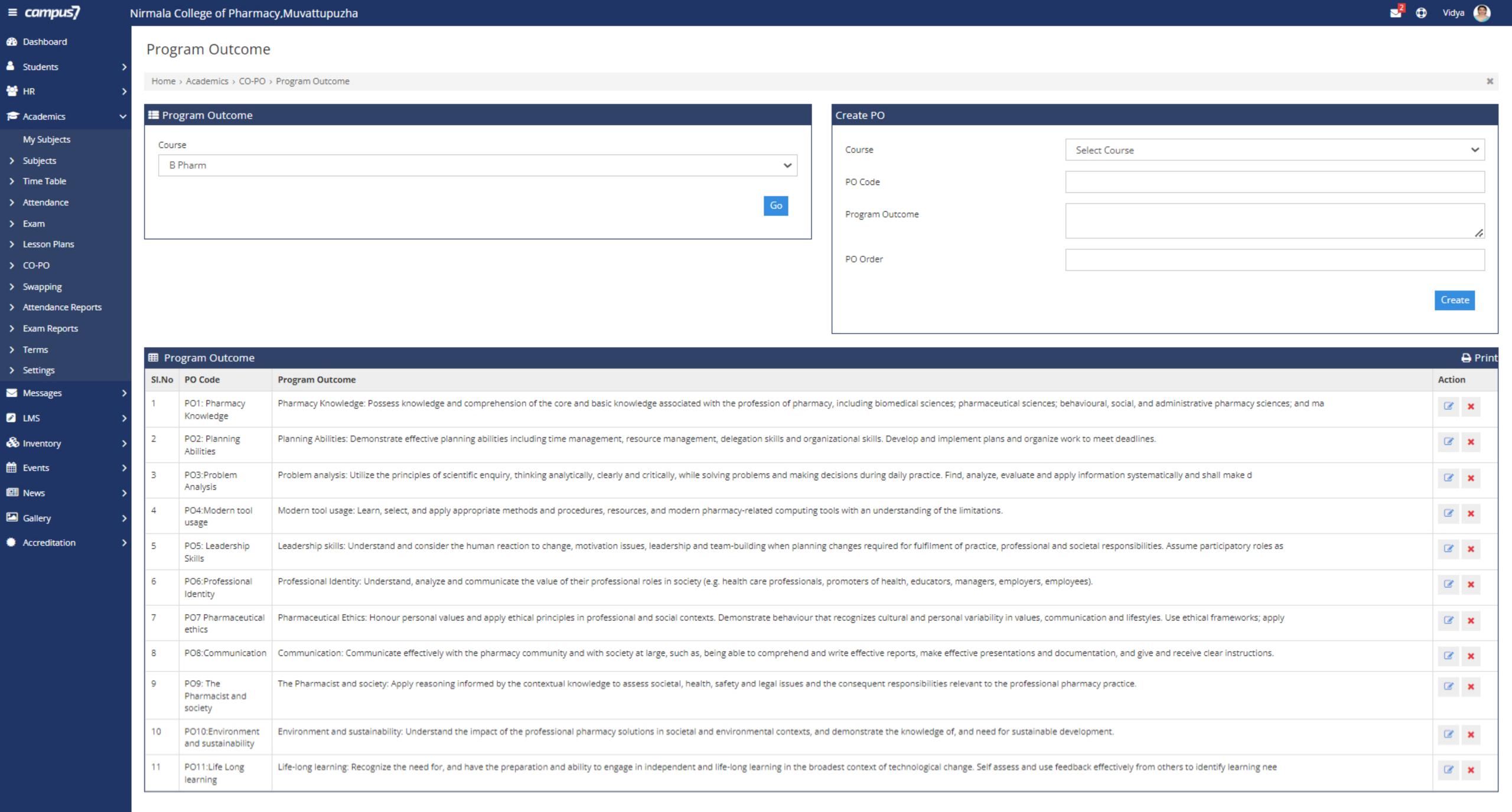
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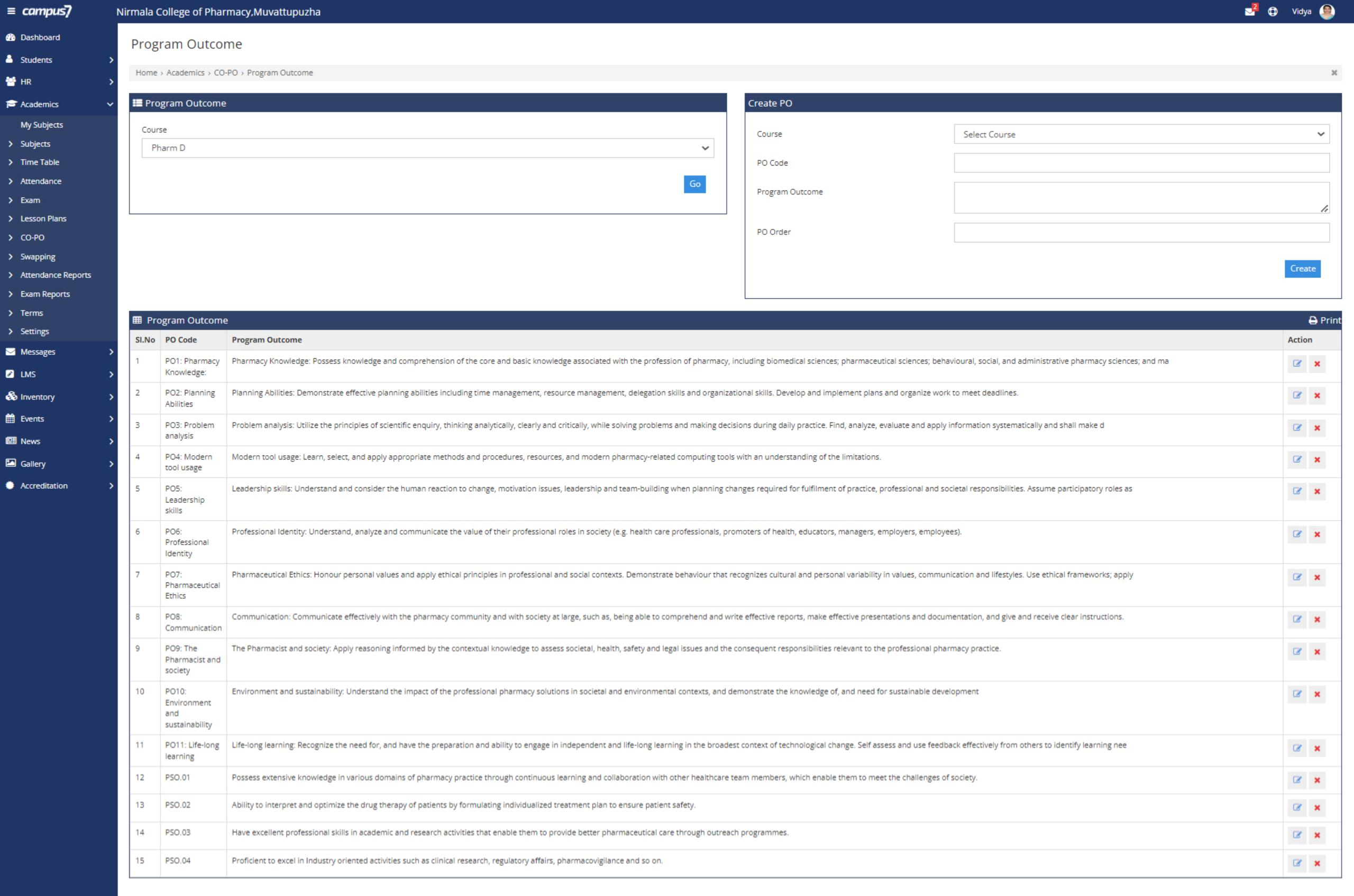


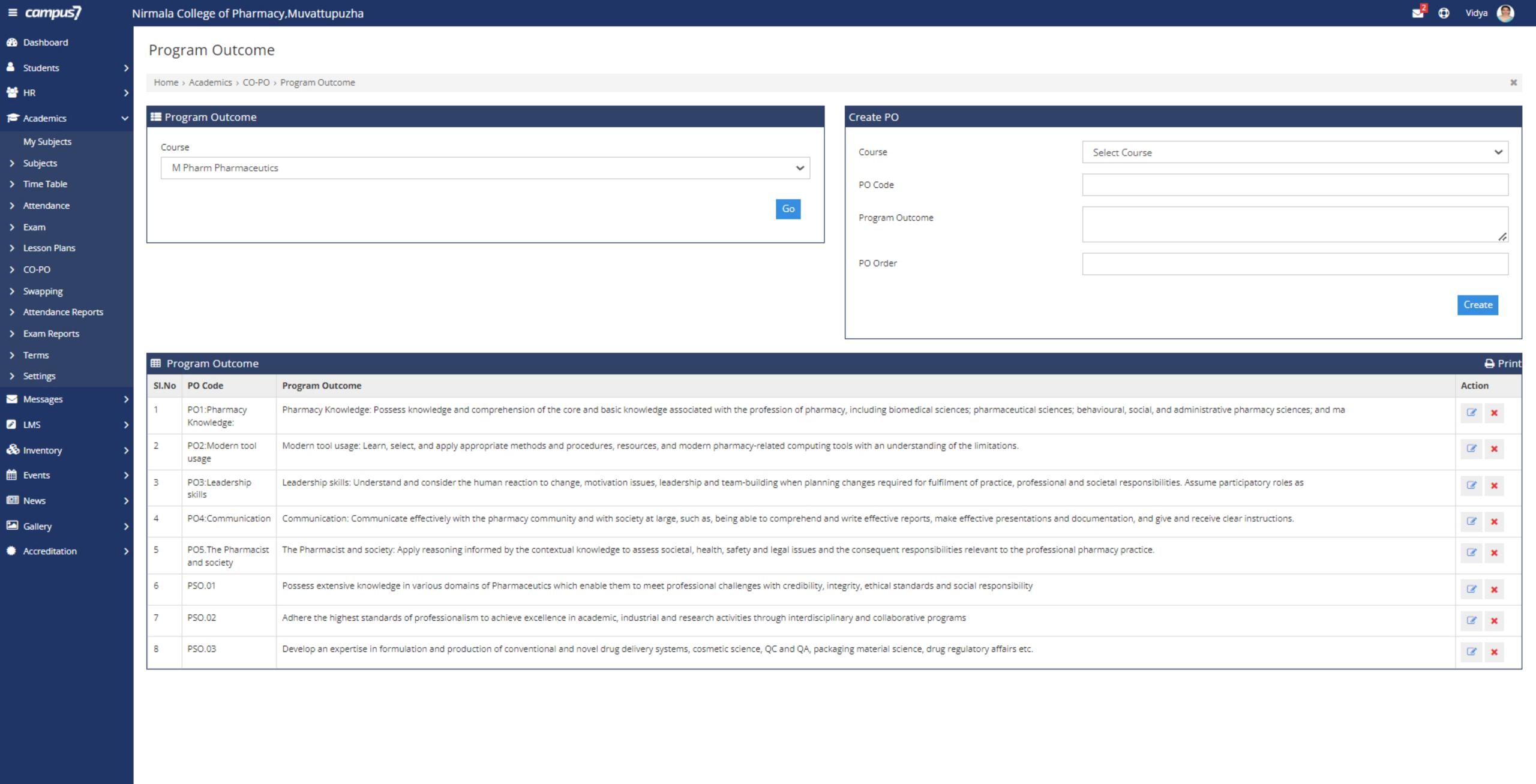


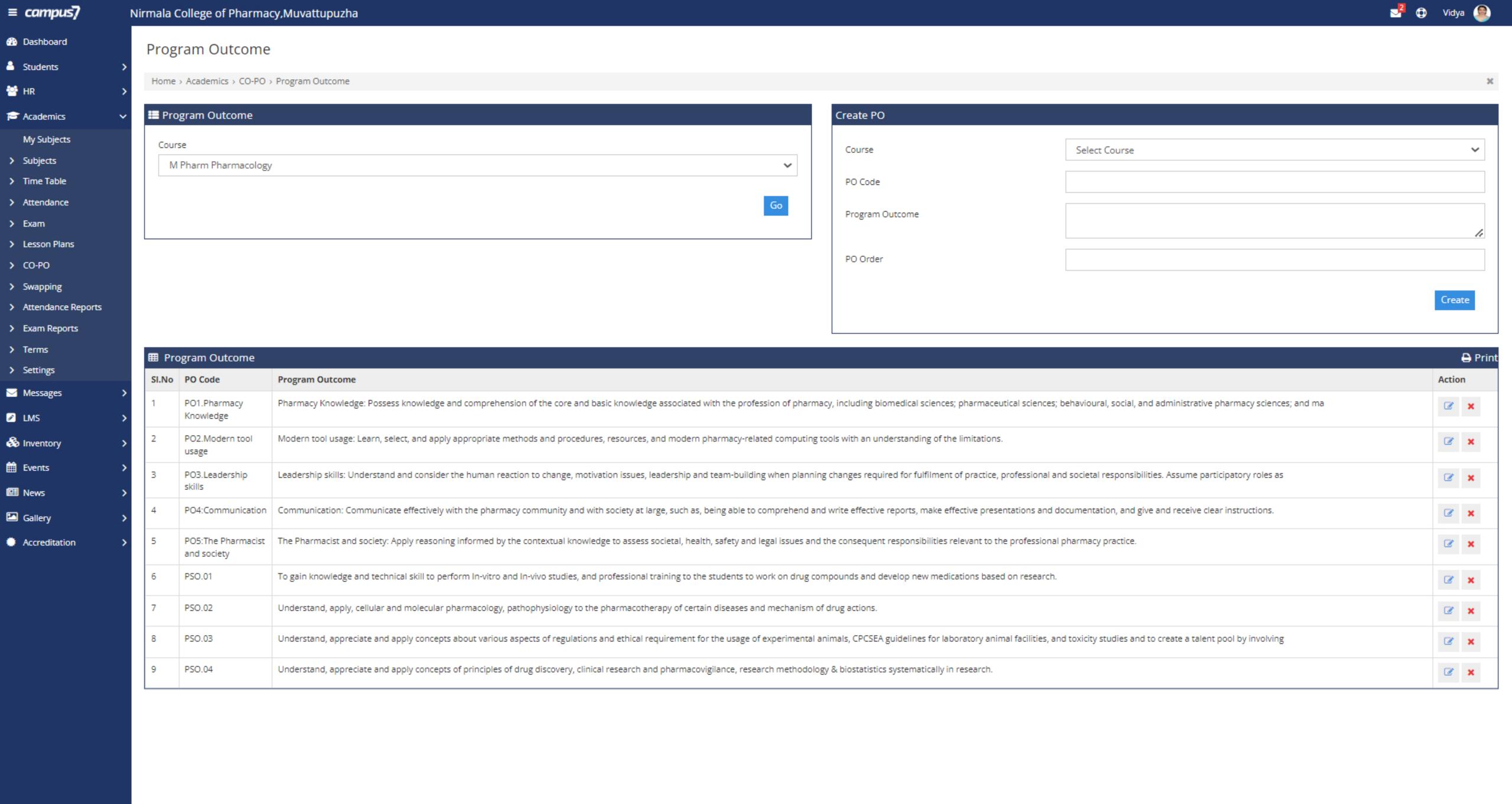
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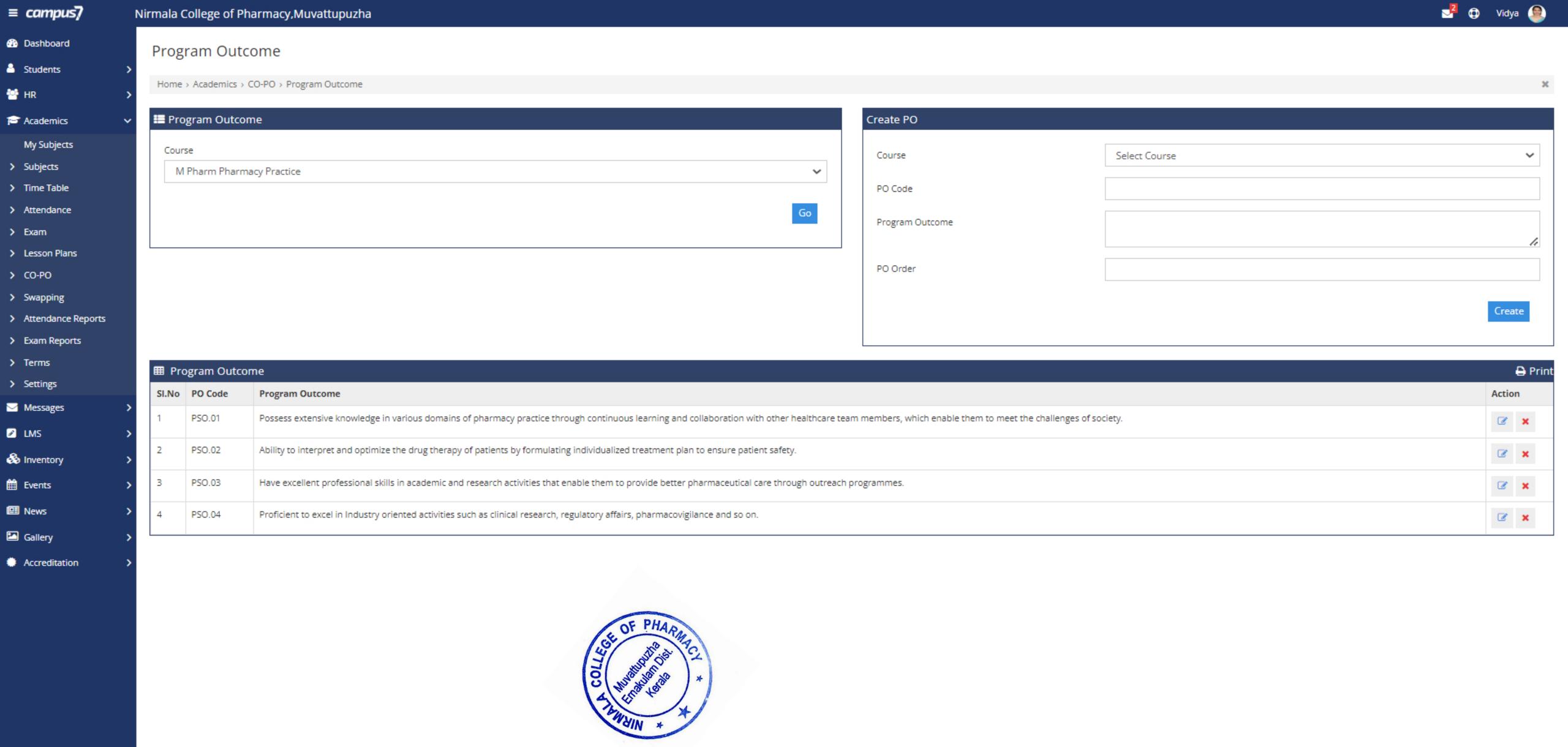












2.6.1:
Program Outcomes (POs) for all
Programmes offered by the
institution:
Displayed in Classes and Labs





#### PROGRAM OUTCOMES

#### 1. Pharmacy Knowledge:

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#### 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 coam-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 wellbeing.

#### 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 othical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use othical frameworks; apply othical principles while making decisions and take responsibility for the outcomes associated with the decisions.

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#### 10.Environment and Sustainability:

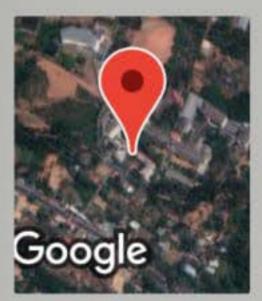
Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

#### 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.







## Muvattupuzha, Kerala, India

XHGV+VH3, Kizhakkekara, Muvattupuzha, Kerala 686661, India

Lat 9.977132°

Long 76.593922°

16/03/23 04:10 PM GMT +05:30



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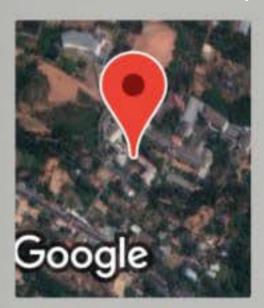
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#### **B.PHARM PROGRAM**

#### VISION

To mould professionally competent and socially committed Pharmacists to meet the global challenges in the field of Pharmacy.

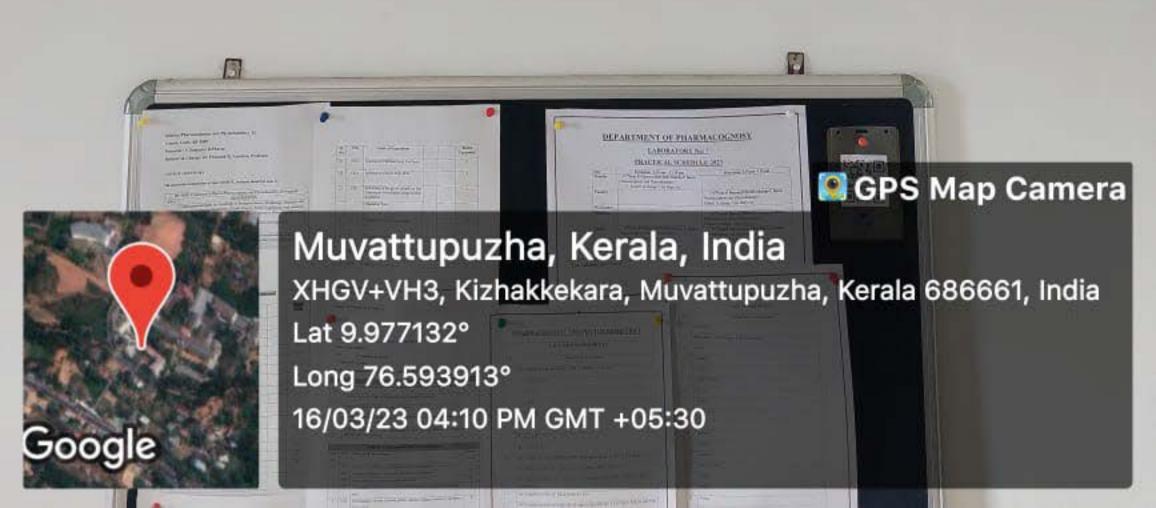
#### MISSION

- To equip the graduates with Pharmaceutical knowledge and technical skills to build their careers.
- To foster the principles and practices of Pharmacy to empower lifelong learning.
- To impart value addition and skill development programs to equip the graduates committed for social transformation.
- To develop the students with required attributes and outcomes to meet the challenges of society, industry and healthcare services.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Graduates of B.Pharmacy Program:

- Shall have in depth knowledge in Pharmaceutical Sciences which enables them to meet the professional challenges.
- Shall have lifelong learning, along with professional ethics, good communication skills, entrepreneurship and leadership skills so that they can succeed in their life.
- Shall have expertise on various domains and platforms, meeting the expectations of industry, academics and research.







#### PROGRAM OUTCOMES

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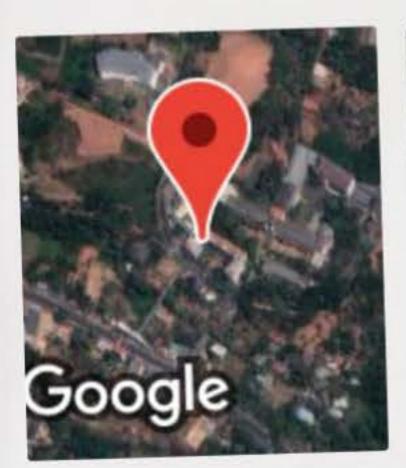
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**GPS Map Camera** 



Muvattupuzha, Kerala, India

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686661, India

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**GPS Map Camera** 

## Muvattupuzha, Kerala, India

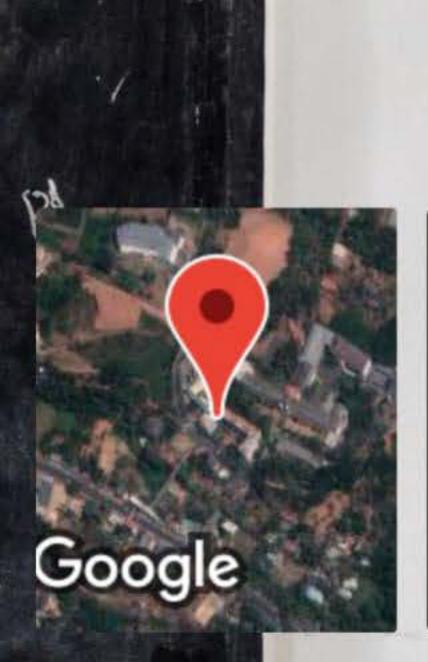
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686661, India

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Long 76.593873°

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## 2.6.1: Program Outcomes (POs) for all Programmes offered by the institution: Displayed on Hand Book and Calender





## NIRMALA COLLEGE OF PHARMACY

Muvattupuzha P.O., Ernakulam Dist., Kerala - 686 661
Telephones:-0485 2836888 (Office), 0485 2830666 (Principal),
Email: nip\_mvpa@yahoo.co.in Website: www.nirmalacp.org
Fax: +91 485 2830666

#### Accredited by







Approved by Government of Kerala and PCI, New Delhi

Affiliated to **KUHS** ,**Thrissur** 

HANDBOOK & CALENDAR





### NIRMALA COLLEGE OF PHARMACY MUVATTUPUZHA

FOUNDED IN 2004



Patron
His Excellency
Rt. Rev. Dr. George Madathikandathil
Bishop of Kothamangalam



Manager/President Rev. Msgr. Dr. Pius Malekandathil



Administrator/Secretary Rev. Fr. Jose Pulloppillil



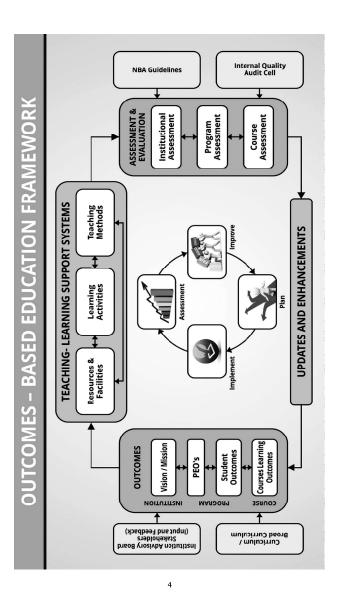
Principal Prof. Dr. Badmanaban R





Nirmala (the pure one) is an attribute of the Blessed Virgin Mary, the immaculate mother of Jesus Christ. The College takes its name from Mother Nirmala and is dedicated to her. It is to her intercession we attribute all our success.







#### **INSTITUTION**

Vision: A centre of excellence for Pharmacy education and research, moulding students with value integration and social commitment.

#### Mission:

- To develop students with intellectual and professional competence to meet the challenges of technology, industry and services.
- To promote research and development in basics and frontier areas to solve the complexity of the health care system.
- To evolve and disseminate appropriate Pharmacy Practices.
- To develop socially committed and responsible professionals by inculcating ethical values.
- To improve the performance standards by benchmarking and internal drive.

#### Aim and Objective

We are committed to accomplish the following Aims:-

Enable students to -

- Pursue knowledge with an insatiable thirst;
- Discipline them to harness their energy for creative
- Make them physically and mentally fit and competent for a career and
- Equip them to be self supportive in life.

#### **Core Values**

The values which guide us are:

- Faith in God
- Love of fellow beings
- Moral uprightness
- Social Responsibility
- Pursuit of Excellence



## **B. PHARM PROGRAM**

**VISION:** To mould professionally competent and socially committed pharmacists to meet the global challenges in the field of pharmacy.

## **MISSION:**

- To equip the graduates with pharmaceutical knowledge and technical skills to build their careers.
- To foster the principles and practices of pharmacy to empower lifelong learning.
- To impart value addition and skill development programs to equip the graduates committed for social transformation.
- To develop the students with required attributes and outcomes to meet the challenges of society, industry and healthcare services.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates of B. Pharmacy Program

- shall have in depth knowledge in Pharmaceutical sciences which enables them to meet the professional challenges.
- shall have lifelong learning, along with professional ethics, good communication skills, entrepreneurship and leadership skills so that they can succeed in their life.
- shall have expertise on various domains and platforms, meeting the expectations of industry, academics and research.



## PROGRAMME OUTCOMES (NBA GUIDELINES)

- 1. Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioural, 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.
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- 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 fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
- 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 behaviour 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.



## M.PHARM PHARMACEUTICS

## VISION

To excel in education and research in the field of industrial pharmacy and drug development.

## MISSION

- To nurture the graduates to transform into competent professionals to take up multidisciplinary tasks in pharma industry and research organisations.
- To provide quality services to the industry and the community by participating in educational and research programs.

## PROGRAM SPECIFIC OUTCOMES (PSO)

The post graduate in M. Pharmacy Degree Programme (Pharmaceutics) shall be able to

SL No	Description
PSO. 01	Possess extensive knowledge in various domains of Pharmaceutics which enable them to meet professional challenges with credibility, integrity, ethical standards and social responsibility
PSO. 02	Adhere the highest standards of professionalism to achieve excellence in academic, industrial and research activities through interdisciplinary and collaborative programs.
PSO. 03	Develop an expertise in formulation and production of conventional and novel drug delivery systems, cosmetic science, QC and QA, packaging material science, drug regulatory affairs etc.



## M. PHARM PHARMACY PRACTICE and PHARM.D

## Vision:

A centre of excellence in the field of pharmacy practice education and research, and mould the students professionally competent and socially committed to cater the needs of pharmacy profession and society.

## Mission:

- To equip students with essential attributes to deal with various challenges of pharmaceutical care services
- To foster principles and practices of pharmacy to empower graduates for social transformation and lifelong learning

## PROGRAM SPECIFIC OUTCOMES (PSO)

Pharm D and M-Pharm (Pharmacy Practice) graduates upon completion of the programme shall be able to:

SL No	Description
PSO. 01	Possess extensive knowledge in various domains of pharmacy practice through continuous learning and collaboration with other healthcare team members, which enable them to meet the challenges of society.
PSO. 02	Ability to interpret and optimize the drug therapy of patients by formulating individualized treatment plan to ensure patient safety.
PSO. 03	Have excellent professional skills in academic and research activities that enable them to provide better pharmaceutical care through outreach programmes.
PSO. 04	Proficient to excel in Industry oriented activities such as clinical research, regulatory affairs, pharmacovigilance and so on.



## M. PHARM PHARMACOLOGY

## VISION

To excel in the field of pharmacological education and research to cater the need of society.

## MISSION

- To foster a sense of inquisitiveness in the mind of pharmacy graduates and equip them to carry out research in drug discovery.
- To implement modern pedagogical teaching techniques while imparting updated knowledge in pharmacology.

## PROGRAM SPECIFIC OUTCOMES (PSO)

The post graduate in M. Pharmacy Degree Programme (Pharmacology) shall be able to:

SL No	Description
PSO. 01	To gain knowledge and technical skill to perform Invitro and In-vivo studies, and professional training to the students to work on drug compounds and develop new medications based on research.
PSO. 02	Understand, apply, cellular and molecular pharmacology, pathophysiology to the pharmacotherapy of certain diseases and mechanism of drug actions.
PSO. 03	Understand, appreciate and apply concepts about various aspects of regulations and ethical requirement for the usage of experimental animals, CPCSEA guidelines for laboratory animal facilities, and toxicity studies and to create a talent pool by involving students in research projects and to make students to undertake outcome-based research projects.
PSO. 04	Understand, appreciate and apply concepts of principles of drug discovery, clinical research and pharmacovigilance, research methodology & biostatistics systematically in research.



# 2.6.1: Program Outcomes (POs) for all Programmes offered by the institution: Displayed in Practical Record



# NIRMALA COLLEGE OF PHARMACY

## MUVATTUPUZHA

(Approved by AICTE, PCI-New Delhi, Govt. of Kerala, Affiliated to Kerala University of Health Sciences, Thrissur)



# B. PHARM DEGREE COURSE PHYSICAL PHARMACEUTICS I

	This is to certify that it is a bonafide i	record of the practical work done by
Mr./Miss	Mrs. ANEETTA VINOB.	bearing the
	180091092 of III semester	B.Pharm course prescribed by
•	w Delhi and Kerala University of Health	
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Examiners:

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Staff in-charge

Principal

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## INSTITUTION

Vision: A centre of Excellence for Pharmacy education and research, moulding students with value integration and social commitment

## Mission:

- To develop students with intellectual and professional competence to meet the challenges of technology, industry and services.
- To promote research and development in basics and frontier areas to solve the complexity of the health care system.
- To evolve and disseminate appropriate Pharmacy Practice.
- To develop socially committed and responsible professionals by inculcating Ethical values.
- To improve the performance standards by benchmarking and internal drive

## B.PHARM PROGRAM

Vision: To mould professionally competent and socially committed Pharmacists to meet the global challenges in the field Pharmacy

## Mission:

- To equip the graduates with Pharmaceutical knowledge and technical skills to build their carreers.
- To fosterthe principles and practices of Pharmacy to empower lifelong learning
- To impart value addition and skill development programs to equip the graduates committed for social transformation.
- To develop the students with required attributes and outcomes to meet the challenges of Society, Industry and healthcare services.

## Program Educational Objectives (PEOs):

Graduates of B. Pharmacy Program

- Shall have in depth knowledge in pharmaceutical sciences which enables them to meet the professional challenges.
- Shall have lifelong learning, along with professional ethics, good communication skills, entrepreneurship and leadership skills so that they can succeed in their life.
- Shall have expertise on various domains and platforms, meeting the expectations of industry, academics and research.



## NIRMALA COLLEGE OF PHARMACY

## **MUVATTUPUZHA**

(Approved by PCI, Govt of Kerala
Affiliated to Kerala University of Health Sciences, Thrissur)







**Principal** 



Examiner 2)

## BACHELOR OF PHARMACY PHARMACEUTICS PRACTICAL RECORD

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## NIRMALA COLLEGE OF PHARMACY MUVATTUPUZHA

## Vision:

A centre of Excellence for Pharmacy education and research, moulding stude integration and social commitment.



## Mission:

- To develop students with intellectual and professional competence to meet the challenges of technology, industry and services.
- ➤ To promote research and development in basics and frontier areas to solve the complexity of the health care system.
- ➤ To evolve and disseminate appropriate Pharmacy Practices.
- > To develop socially committed and responsible professionals by inculcating Ethical values.
- To improve the performance standards by benchmarking and internal drive.

## **B. PHARM PROGRAM**

## Vision:

To mould professionally competent and socially committed Pharmacists to meet the global challenges in the field of Pharmacy.

## Mission:

- ➤ To equip the graduates with Pharmaceutical knowledge and technical skills to build their careers.
- To foster the principles and practices of Pharmacy to empower lifelong learning.
- ➤ To impart value addition and skill development programs to equip the graduates committed for social transformation.
- ➤ To develop the students with required attributes and outcomes to meet the challenges of Society, Industry and healthcare services.

## **Program Educational Objectives (PEOs)**

Graduates of B. Pharmacy Program:

- > shall have in depth knowledge in Pharmaceutical sciences which enables them to meet the Professional challenges.
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- > shall have expertise on various domains and platforms, meeting the expectations of industry, academics and research.

## **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 wellbeing.
- 6. **Professional Identity:** Understand, analyze and communicate the value of their professional roles in society.
- 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. Selfassess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

